WEST

Help | Logout | Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

Search Results -

Term	Documents
(8 NOT 6).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	170
(L8 NOT L6).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	170

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Search: L10

Refine Search | Recall Text | Clear

Search History

DATE: Wednesday, February 12, 2003 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND		
L10	L8 not L6	170	L10
L9	L8 and ((inactive or inactivated) adj (cancer or tumor or tumour))	0	L9
L8	L5 and (cytokine or (tumor adj antigen))	206	L8
L7	L2 same (pharmaceutical)	38	L7
L6	L5 and (IFNbeta or IFN-beta)	37	L6
L5	L4 and (ex adj vivo)	225	L5
L4	L2 and (baculovirus)	531	L4
L3	L2 same (IFNbeta or IFN-beta)	1	L3
L2	(cancer or tumor or tumour) same (insect)	1231	L2
L1	Fidler-Isaiah-J$.in.	9	L1

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND			
L12	L10 and (cytokine or lymphokine)	44	L12
L11	L10 and (interferon adj beta)	1	L11
L10	L9 and (tumor or cancer or tumour)	81	L10
L9	(insect adj cell) same (adjuvant)	116	L9
L8	L6 and (insect adj cell)	4	L8
L7	L6 and (interferon adj beta)	3	L7
L6	L5 and L4	18	L6
L5	((cytokine adj expressing) adj cell) or (carrier adj cell)	1670	L5
L4	L3 same (lymphokine or cytokine)	831	L4
L3	(gene adj therapy) same (cancer or tumor or tumour)	9146	L3
L2	Fidler-Isaiah-J$.in.	9	L2
L1	Fidler-Isaiah-J4.in.	0	L1

END OF SEARCH HISTORY

```
S7          12   S6 AND (TREATMENT OR THERAPY)
S8           7   RD (unique items)
S9           1   S8 NOT S3
S10         13   S6 AND (VACCINE?)
S11          5   RD (unique items)
S12          0   S11 NOT S3
S13         26   RD S6 (unique items)
S14         10   S13 NOT S3
?s s2 and ((inactivated or inactive) (w) (cancer (w) cell?))
Processing
Processing
Processing
              55  S2
           94641  INACTIVATED
          139283  INACTIVE
         2215582  CANCER
         8564571  CELL?
              10  (INACTIVATED OR INACTIVE)(W)CANCER(W)CELL?
     S15       0  S2 AND ((INACTIVATED OR INACTIVE) (W) (CANCER (W) CELL?))
?ds

Set     Items   Description
S1        969   (TUMOR OR CANCER OR TUMOUR) (S) (INSECT)
S2         55   S1 AND (CYTOKINE? OR IMMUNOMODULATOR?)
S3         25   RD (unique items)
S4        340   (INSECT) (S) (CYTOKINE? OR IMMUNOMODULATOR?)
S5          0   S4 AND (IFNBETA OR (IFN (W) BETA))
S6         61   S4 AND (TUMOR OR TUMOUR OR CANCER)
S7         12   S6 AND (TREATMENT OR THERAPY)
S8          7   RD (unique items)
S9          1   S8 NOT S3
S10        13   S6 AND (VACCINE?)
S11         5   RD (unique items)
S12         0   S11 NOT S3
S13        26   RD S6 (unique items)
S14        10   S13 NOT S3
S15         0   S2 AND ((INACTIVATED OR INACTIVE) (W) (CANCER (W) CELL?))
?logoff
       12feb03 15:31:40 User259876 Session D463.2
            $4.44    1.388 DialUnits File155
               $4.20  20 Type(s) in Format  3
            $4.20  20 Types
     $8.64  Estimated cost File155
            $2.53    0.857 DialUnits File159
               $0.26  1 Type(s) in Format  3
            $0.26  1 Types
     $2.79  Estimated cost File159
            $7.97    1.423 DialUnits File5
              $12.25  7 Type(s) in Format  3
           $12.25  7 Types
    $20.22  Estimated cost File5
           $21.13    2.348 DialUnits File73
              $20.00  8 Type(s) in Format  3
           $20.00  8 Types
    $41.13  Estimated cost File73
            OneSearch, 4 files,  6.015 DialUnits FileOS
     $3.72  TELNET
    $76.50  Estimated cost this search
    $76.90  Estimated total session cost   6.112 DialUnits


### Status: Signed Off. (16 minutes)
```

```
### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
 ******** HHHHHHHH SSSSSSSS?
### Status: Signing onto Dialog
 ********
ENTER PASSWORD:
 ******** HHHHHHHH SSSSSSSS? ********
Welcome to DIALOG
### Status: Connected


Dialog level 02.12.40D

Last logoff:  11feb03 10:38:10
Logon file001 12feb03 15:15:44
           *** ANNOUNCEMENT ***
                  ***
--File 515 D&B Dun's Electronic Business Directory is now online
completely updated and redesigned. For details, see HELP NEWS 515.
                  ***
--File 990 - NewsRoom now contains October 2002 to present records.
File 993 - NewsRoom archive contains 2002 records from January 2002-
September 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002
                  ***
--Alerts have been enhanced to allow a single Alert profile to be
stored and run against multiple files. Duplicate removal is available
across files and for up to 12 months. The Alert may be run according
to the file's update frequency or according to a custom
calendar-based schedule. There are no additional prices for these
enhanced features. See HELP ALERT for more information.
                  ***
--U.S. Patents Fulltext (File 654) has been redesigned with
new search and display features.  See HELP NEWS 654 for
information.
                  ***
--Connect Time joins DialUnits as pricing options on Dialog.
See HELP CONNECT for information.
                  ***
--CLAIMS/US Patents (Files 340,341, 942) have been enhanced
with both application and grant publication level in a
single record. See HELP NEWS 340 for information.
                  ***
--SourceOne patents are now delivered to your email inbox
as PDF replacing TIFF delivery. See HELP SOURCE1 for more
information.
                  ***
--Important news for public and academic
libraries.  See HELP LIBRARY for more information.
                  ***
--Important Notice to Freelance Authors--
See HELP FREELANCE for more information
                  ***
For information about the access to file 43 please see Help News43.
***
NEW FILES RELEASED
***Dialog NewsRoom - Current 3-4 months (File 990)
***Dialog NewsRoom - 2002 Archive (File 993)
***Dialog NewsRoom - 2001 Archive (File 994)
***Dialog NewsRoom - 2000 Archive (File 995)
***TRADEMARKSCAN-Finland (File 679)
```

***TRADEMARKSCAN-Norway   le 678)
***TRADEMARKSCAN-Sweden (File 675)
                ***
UPDATING RESUMED
***Delphes European Business (File 481)
                ***
RELOADED
***D&B Dun's Electronic Business Directory (File 515)
***U.S. Patents Fulltext 1976-current (File 654)
***Population Demographics (File 581)
***Kompass Western Europe (File 590)
***D&B - Dun's Market Identifiers (File 516)

REMOVED
***Chicago Tribune (File 632)
***Fort Lauderdale Sun Sentinel (File 497)
***The Orlando Sentinel (File 705)
***Newport News Daily Press (File 747)
***U.S. Patents Fulltext 1980-1989 (File 653)
***Washington Post (File 146)
***Books in Print (File 470)
***Court Filings (File 793)
***Publishers, Distributors & Wholesalers of the U.S. (File 450)
***State Tax Today (File 791)
***Tax Notes Today (File 790)
***Worldwide Tax Daily (File 792)

***TOXNET data is added to ToxFile (F156)

New document supplier
IMED has been changed to INFOTRIE (see HELP OINFOTRI)

     >>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
     >>>   of new databases, price changes, etc.   <<<
                ****
KWIC is set to 50.
HILIGHT set on as '*'
* * New CURRENT Year ranges installed   **

File   1:ERIC 1966-2003/Jan 22
       (c) format only 2003 The Dialog Corporation

      Set Items Description
      --- ----- -----------
Cost is in DialUnits
?b 155, 159, 5, 73
       12feb03 15:16:00 User259876 Session D463.1
            $0.34   0.096 DialUnits File1
     $0.34 Estimated cost File1
     $0.06 TELNET
     $0.40 Estimated cost this search
     $0.40 Estimated total session cost   0.096 DialUnits

SYSTEM:OS - DIALOG OneSearch
  File 155:MEDLINE(R) 1966-2003/Feb W2
         (c) format only 2003 The Dialog Corp.
  File 159:Cancerlit 1975-2002/Oct
         (c) format only 2002 Dialog Corporation
File 159: Updating for Cancerlit has stopped due to end of year
processing.
  File   5:Biosis Previews(R) 1969-2003/Feb W1
         (c) 2003 BIOSIS
File   5: Alert feature enhanced for multiple files, duplicates
removal, customized scheduling. See HELP ALERT.

File 73:EMBASE 1974-[redacted]3/Feb W1
(c) 2003 Elsevier Science B.V.
***File 73: Alert feature enhanced for multiple files, duplicates** removal, customized scheduling. See HELP ALERT.

Set	Items	Description
?s (tumor or cancer or tumour) (s) (insect)		
	2095032	TUMOR
	2215582	CANCER
	268084	TUMOUR
	141151	INSECT
S1	969	(TUMOR OR CANCER OR TUMOUR) (S) (INSECT)
?s s1 and (cytokine? or immunomodulator?)		
	969	S1
	383359	CYTOKINE?
	29401	IMMUNOMODULATOR?
S2	55	S1 AND (CYTOKINE? OR IMMUNOMODULATOR?)
?rd		
...examined 50 records	(50)	
...completed examining records		
S3	25	RD (unique items)

?t s3/3,k/all

3/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

14229535 22394461 PMID: 12504339

Pyridostigmine bromide modulates topical irritant-induced *cytokine* release from human epidermal keratinocytes and isolated perfused porcine skin.

Monteiro-Riviere Nancy A; Baynes Ronald E; Riviere Jim E; et al

Center for Chemical Toxicology Research and Pharmacokinetics (CCTRP), North Carolina State University, 4700 Hillsborough Street, 27606, Raleigh, NC, USA

Toxicology (Ireland) Feb 1 2003, 183 (1-3) p15-28, ISSN 0300-483X Journal Code: 0361055

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: In Process

Pyridostigmine bromide modulates topical irritant-induced *cytokine* release from human epidermal keratinocytes and isolated perfused porcine skin.

...War personnel were given pyridostigmine bromide (PB) as a prophylactic treatment against organophosphate nerve agent exposure, and were exposed to the insecticide permethrin and the *insect* repellent N,N-diethyl-m-toluamide (DEET). The purpose of this study was to assess the effects of PB to modulate release of inflammatory biomarkers...

...and DEET applied in ethanol or water vehicles. Treatments were topically applied to isolated perfused porcine skin flaps (IPPSFs). Concentrations of interleukin-8 (IL-8), *tumor* necrosis factor-alpha (TNF-alpha) and prostaglandin E(2) (PGE(2)) were assayed in perfusate to probe for potential inflammatory effects after complex mixture application...

3/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

13091195 21626920 PMID: 11770992

Production of biologically active equine interleukin 12 through expression of p35, p40 and single chain IL-12 in mammalian and baculovirus

expression systems.
McMonagle E L; Taylor S; van Zuilekom H; Sanders L; Scholtes N; Keanie L J; Hopkins C A; Logan N A; Bain D; Argyle D J; Onions D E; Schijns V E; Nicolson L
University of Glasgow Veterinary School, UK.
Equine veterinary journal (England) Nov 2001, 33 (7) p693-8, ISSN 0425-1644 Journal Code: 0173320
Comment in Equine Vet J. 2001 Nov;33(7) 628-9; Comment in PMID 11770981
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Interleukin-12 (IL-12) is a key *cytokine* in the development of cell-mediated immune responses. Bioactive IL-12 is a heterodimeric *cytokine* composed of disulphide linked p35 and p40 subunits. The aim of this study was to verify biologically activity of the products expressed from equine interleukin...
... reported for IL-12a of several mammalian species. We report production of equine IL-12 through expression of p35 and p40 subunits in mammalian and *insect* cells and of a p35:p40 fusion polypeptide in mammalian cells. Conditioned medium recovered from cultures transiently transfected with constructs encoding equine p35 and p40...

... cultures enhanced target cell IFN-gamma production and proliferation. Experimental studies in mice and other animals have revealed a therapeutic benefit of IL-12 in *cancer*, inflammatory and infectious disease and an adjuvant effect in prophylactic regimes. Production of a bioactive species-specific IL-12 is a first step towards an...

3/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12869941 21626203 PMID: 11754359
Activation requirements of circulating antigen-specific human CD8(+) memory T cells probed with insect cell-based artificial antigen-presenting cells.
Guelly Christian; Kupcu Zaruhi; Zalusky Doris; Karner Margarete; Zehetner Margit; Schweighoffer Tamas
Department of NBE Discovery, Boehringer Ingelheim Austria, Vienna, Austria.
European journal of immunology (Germany) Jan 2002, 32 (1) p182-92, ISSN 0014-2980 Journal Code: 1273201
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

We sought to define the molecular setup of an antigen-presenting cell that elicits antigen-specific T cell responses in vitro using *insect* cells that were infected with recombinant baculoviruses. Expression of single-chain HLA was complemented step-by-step with costimulatory molecules, including CD54 and CD80, by...
...restricted peptide GLGCTLVAML were previously shown to bear hallmarks of memory cells. We found that the HLA+peptide complex alone displayed on the surface of *insect* cells was sufficient to elicit IFN-gamma secretion from these freshly isolated CD8(+) T cells in ELISpot assays. Binding of CD8 was absolutely required, but coexpression of costimulatory molecules resulted only in minimal increase in the number of spots. *Tumor* antigen-specific CTL clones also reacted in a strictly antigen-specific manner, but required CD54 for quantitative responses. The amount of IFN-gamma produced by...

... evaluated as spot size, and was also influenced by the costimulatory molecules: CD54 increased also the response magnitude of cultured CTL

lines, while CD80 enhanc[redacted] *cytokine* release from freshl[redacted]isolated CD8(+) T cells. Understanding the stimulatory requirements of functionally competent effector/memory T cells and their exact enumeration will be helpful...

3/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10841979 20387337 PMID: 10827080

Mammalian peptidoglycan recognition protein binds peptidoglycan with high affinity, is expressed in neutrophils, and inhibits bacterial growth.

Liu C; Gelius E; Liu G; Steiner H; Dziarski R
Northwest Center for Medical Education, Indiana University School of Medicine, Gary, Indiana 46408, USA.

Journal of biological chemistry (UNITED STATES) Aug 11 2000, 275 (32) p24490-9, ISSN 0021-9258 Journal Code: 2985121R
Contract/Grant No.: AI2879; AI; NIAID
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... protein (PGRP) is conserved from insects to mammals. In insects, PGRP recognizes bacterial cell wall peptidoglycan (PGN) and activates prophenoloxidase cascade, a part of the *insect* antimicrobial defense system. Because mammals do not have the prophenoloxidase cascade, its function in mammals is unknown. However, it was suggested that an identical protein (Tag7) was a *tumor* necrosis factor-like *cytokine*. Therefore, the aim of this study was to identify the function of PGRP in mammals. Mouse PGRP bound to PGN with fast kinetics and nanomolar...

... Gram-negative bacteria. PGRP inhibited phagocytosis of Gram-positive bacteria by macrophages, induction of oxidative burst by Gram-positive bacteria in neutrophils, and induction of *cytokine* production by PGN in macrophages. PGRP had no *tumor* necrosis factor-like cytotoxicity for mammalian cells, and it was not chemotactic on its own or in combination with PGN. Therefore, mammalian PGRP binds to...

3/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10775346 20338600 PMID: 10881691

Cancer vaccines: single-epitope anti-idiotype vaccine versus multiple-epitope antigen vaccine.

Maruyama H; Zaloudik J; Li W; Sperlagh M; Koido T; Somasundaram R; Scheck S; Prewett M; Herlyn D
Wistar Institute of Anatomy and Biology, Philadelphia, PA 19104, USA.

Cancer immunology, immunotherapy : CII (GERMANY) Jun 2000, 49 (3) p123-32, ISSN 0340-7004 Journal Code: 8605732
Contract/Grant No.: CA-10815; CA; NCI; CA-43735; CA; NCI; CA-53411; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

In this study, we compared the immunogenicity and *tumor*-protective activity of anti-idiotypic antibodies mimicking a single *tumor*-associated epitope and *tumor* -associated antigen expressing multiple potentially immunogenic epitopes. We focused our study on the colorectal-carcinoma(CRC)-associated antigen GA733 (also known as CO17-1A/KS1...

... idiotypic antibody (Ab2) BR3E4 was produced against murine anti-CRC mAb CO17-1A (Ab1) in rats. Full-length native GA733 protein was isolated from human *tumor* cells, and the extracellular domain protein (GA733-2E) was isolated from supernatants of recombinant baculovirus-infected *insect* cells by immunoaffinity chromatography. The *immunomodulatory* activity of the Ab2 was compared with that of the antigen, both in rabbits and in mice. Mice, like humans but not rabbits, express a...

...mice against challenge with antigen-positive syngeneic murine CRC cells. Similar studies with Ab2 BR3E4 mimicking the CO17-1A epitope were not possible because the *tumor* cells do not express this epitope after transfection with the human GA733-2 cDNA. However, similar studies with Ab2 mimicking the epitope defined by mAb GA733, which is expressed by the transfected *tumor* cells, indicated a lack of *tumor*-protective activity of this Ab2. In contrast, the full-length antigen expressed by recombinant adenovirus inhibited the growth of established tumors in mice. In conclusion...

3/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10645170 20164758 PMID: 10699581

Protein transfer of the costimulatory molecule, B7-2 (CD86), into tumor membrane liposomes as a novel cell-free vaccine.

Westerman L E; Jensen P E
Department of Pathology and Laboratory Medicine, 7309 WMRB, Emory University School of Medicine, Atlanta, GA, USA.

Journal of immunological methods (NETHERLANDS) Mar 6 2000, 236 (1-2) p77-87, ISSN 0022-1759 Journal Code: 1305440
Contract/Grant No.: CA72474; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Several approaches have been taken to enhance the immunogenicity of tumors. Genetically-modified tumors expressing various *cytokines*, major histocompatibility complex (MHC) molecules, or costimulatory molecules such as B7-1 (CD80) or B7-2 (CD86) can induce *tumor*-specific immune responses. In the present study, an alternative approach was explored based on direct protein transfer of purified recombinant B7-2 into *tumor* cell membranes. B7-2 was purified from recombinant baculovirus infected *insect* cells. Although differentially glycosolyated, the recombinant B7-2 retained the function to costimulate T-cell proliferation. Purified B7-2 was readily incorporated into *tumor* membranes using a detergent dialysis technique to form unilameller liposomes. The immunogenicity of *tumor* membrane proteoliposomes was significantly increased by incorporation of B7-2. These findings suggest an alternative method for the introduction of immunostimulatory molecules into *tumor* membranes to create novel *tumor* vaccines.

3/3,K/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10607244 20135933 PMID: 10669764

Insect cells as HLA-restricted antigen-presenting cells for the IFN-gamma elispot assay.

Janetzki S; Song P; Gupta V; Lewis J J; Houghton A N
Swim Across America Laboratory and Departments of Surgery and Medicine, Memorial Sloan-Kettering Cancer Center, New York 10021, USA. janetzki sylvania/mskcc sur@mskmail.mskcc.org

Journal of immunological methods (NETHERLANDS) Feb 3 2000, 234 (1-2)

p1-12, ISSN 0022-1759 urnal Code: 1305440
Contract/Grant No.: CA47179; CA; NCI; PO1 CA33049; CA; NCI; RO156821; PHS
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Measurement of specific cellular immune responses in patients undergoing immunotherapy is difficult. Established approaches, including cytotoxicity (e.g., 51Cr release) and *cytokine* release assays, require in vitro culturing for several weeks or more of patients' peripheral blood mononuclear cells (PBMC) and the addition of exogenous *cytokines*. Therefore, the immunological response does not reflect in vivo conditions. To address these disadvantages, we have used an interferon-gamma (IFN-gamma) Elispot assay for...

... lack of a reproducible source of antigen-presenting cells (APCs). Currently available APCs often lead to significant background levels. It has been shown that transfected *insect* cells can express empty MHC class I molecules on their surface. We have transfected Drosophila melanogaster S2 cells and the Lepidopteran line Sf9 with the gene encoding human HLA-A2.1. We demonstrate that *insect* cells expressing a human HLA molecule effectively function as APCs in the IFN-gamma Elispot assay. Initially the feasibility of the assay was assessed using CD8(+) T cells from HLA-A2.1(+) donors with known reactivity against an HLA-A2.1-binding epitope of the influenza matrix protein. Use of *insect* cells as APCs abrogated background spots, increasing sensitivity. We further observed that a short-term prestimulation of PBMC with peptide-pulsed *insect* cells markedly enhanced the frequency of peptide-specific T cells that could be measured in the Elispot assay without increasing the background. This approach was then used to measure CD8(+) T cell reactivity to a peptide from tyrosinase, an antigen that is processed and presented by melanoma cells. *Insect* cells expressing human HLA molecules provide a standard APC for monitoring CD8(+) T cell responses to *tumor* and viral peptides during immunotherapy.

3/3,K/8 (Item 8 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10405654 99395101 PMID: 10464265
Regulation of human thioredoxin reductase expression and activity by 3'-untranslated region selenocysteine insertion sequence and mRNA instability elements.
Gasdaska J R; Harney J W; Gasdaska P Y; Powis G; Berry M J
Arizona Cancer Center, Tucson, Arizona 85724, USA.
Journal of biological chemistry (UNITED STATES) Sep 3 1999, 274 (36) p25379-85, ISSN 0021-9258 Journal Code: 2985121R
Contract/Grant No.: CA77204; CA; NCI; DK47320; DK; NIDDK; DK52963; DK; NIDDK; +
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...through their substrate, thioredoxin, in the proper folding of enzymes and redox regulation of transcription factor activity. These enzymes are overexpressed in certain tumors and *cancer* cells and down-regulated in apoptosis and may play a role in regulating cell growth. Mammalian thioredoxin reductases contain a selenocysteine residue, encoded by a...
... a cysteine mutant enzyme, and the UGA-terminated protein in mammalian cells and overexpression of the cysteine mutant and UGA-terminated proteins in the baculovirus *insect* cell system. We show that substitution of cysteine for selenocysteine decreases enzyme activity for thioredoxin by 2 orders magnitude, and that termination at the UGA...

... down-regulated by other sequences in the 3'-untranslated region, which contains multiple AU-rich instability elements. These sequences are found in a number of *cytokine* and proto-oncogene mRNAs and have been shown to confer rapid mRNA turnover.

3/3,K/9 (Item 9 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09471924 97382276 PMID: 9235946

The lymphotoxin-alpha (LTalpha) subunit is essential for the assembly, but not for the receptor specificity, of the membrane-anchored LTalpha1beta2 heterotrimeric ligand.

Williams-Abbott L; Walter B N; Cheung T C; Goh C R; Porter A G; Ware C F
Department of Biochemistry, University of California, Riverside, California 92021, USA.

Journal of biological chemistry (UNITED STATES) Aug 1 1997, 272 (31) p19451-6, ISSN 0021-9258 Journal Code: 2985121R
Contract/Grant No.: AI33068; AI; NIAID; PO1 CA69381; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

The lymphotoxins (LT) alpha and beta, members of the *tumor* necrosis factor (TNF) *cytokine* superfamily, are implicated as important regulators and developmental factors for the immune system. LTalpha is secreted as a homotrimer and signals through two TNF receptors...

... of the LTalpha subunit in the function of the membrane LTalpha1beta2 complex, gene transfer via baculovirus was used to assemble LTalpha and -beta complexes in *insect* cells. LTalpha containing mutations at D50N or Y108F are secreted as homotrimers that fail to bind either TNF receptor and are functionally inactive in triggering...

3/3,K/10 (Item 10 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09382710 97296339 PMID: 9151676

Specific uptake of tumor necrosis factor-alpha is involved in growth control of Trypanosoma brucei.

Magez S; Geuskens M; Beschin A; del Favero H; Verschueren H; Lucas R; Pays E; de Baetselier P
Laboratory of Cellular Immunology, Flanders Interuniversity Institute for Biotechnology, Vrije Universiteit Brussel, Belgium.

Journal of cell biology (UNITED STATES) May 5 1997, 137 (3) p715-27, ISSN 0021-9525 Journal Code: 0375356
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Trypanosoma brucei is lysed by *tumor* necrosis factor-alpha (TNF-alpha) in a dose-dependent way, involving specific binding of the *cytokine* to a trypanosomal glycoprotein present in the flagellar pocket of the parasite. TNF-alpha-gold particles are endocytosed via coated pits and vesicles and are directed towards lysosome-like digestive organelles. The specific uptake of the *cytokine* by the parasite results in a developmentally regulated loss of osmoregulatory capacity. TNF-alpha specific lysis is prevented when lysis assays are performed at a temperature <26 degrees C, despite uptake of the *cytokine*. Inhibition of lysis is also observed when a lysosomotropic agent is added during the first 2 h of incubation. Both

monomorphic and pleomorphic trypanosomes are lysed but only when isolated during the peak of parasitaemia. Lysis is not observed with early infection stage parasites or procyclic (*insect* -specific) forms. Anti-TNF-alpha treatment of T. brucei-infected mice reveals a dramatic increase in parasitaemia in the blood circulation, the spleen, the lymph...

3/3,K/11 (Item 11 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09317959 97213770 PMID: 9060459
Monocyte chemotactic protein-4: tissue-specific expression and signaling through CC chemokine receptor-2.
Godiska R; Chantry D; Raport C J; Schweickart V L; Trong H L; Gray P W
ICOS Corporation, Bothell, Washington 98021, USA.
Journal of leukocyte biology (UNITED STATES) Mar 1997, 61 (3) p353-60, ISSN 0741-5400 Journal Code: 8405628
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... mammalian cells and purified by heparin-Sepharose chromatography. Sequencing the amino terminus of this protein corroborated the reported sequence of recombinant MCP-4 produced in *insect* cells. As shown by calcium flux assays, MCP-4 activated the cloned G protein-coupled receptor CCR-2, which also recognizes MCP-1 and MCP...

... invading pathogens. In marked contrast to MCP-1, MCP-4 was not induced in cell lines treated with pro-inflammatory stimuli such as lipopolysaccharide or *tumor* necrosis factor alpha.
Descriptors: Calcium--metabolism--ME; *DNA, Complementary--genetics--GE; *Monocyte Chemoattractant Proteins--genetics--GE; *Receptors, *Cytokine* --drug effects--DE...; DNA, Complementary--isolation and purification--IP; Hamsters; Molecular Sequence Data; Monocyte Chemoattractant Proteins --metabolism--ME; Monocyte Chemoattractant Proteins--pharmacology--PD; RNA, Messenger--metabolism--ME; Receptors, *Cytokine*--genetics--GE; Receptors, *Cytokine*--metabolism--ME; Transfection
Chemical Name: DNA, Complementary; Monocyte Chemoattractant Proteins; RNA, Messenger; Receptors, *Cytokine*; monocyte chemoattractant protein-3; monocyte chemoattractant protein-4; monocyte chemoattractant protein 1 receptor; Calcium

3/3,K/12 (Item 12 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09224787 97121471 PMID: 8962137
Immune response to a differentiation antigen induced by altered antigen: a study of tumor rejection and autoimmunity.
Naftzger C; Takechi Y; Kohda H; Hara I; Vijayasaradhi S; Houghton A N
Swim Across America Laboratory, Memorial Sloan-Kettering Cancer Center, New York, NY 10021, USA.
Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Dec 10 1996, 93 (25) p14809-14, ISSN 0027-8424 Journal Code: 7505876
Contract/Grant No.: AR41465; AR; NIAMS; CA33049; CA; NCI; CA56821; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Recognition of self is emerging as a theme for the immune recognition of

human *cancer* . One question is whether the immune system can actively respond to normal tissue autoantigens expressed by *cancer* cells. A second but related question is whether immune recognition of tissue autoantigens can actually induce *tumor* rejection. To address these issues, a mouse model was developed to investigate immune responses to a melanocyte differentiation antigen, tyrosinase-related protein 1 (or gp75...

... purified syngeneic gp75 or syngeneic cells expressing gp75 failed to elicit antibody or cytotoxic T-cell responses to gp75, even when different immune adjuvants and *cytokines* were included. However, immunization with altered sources of gp75 antigen, in the form of either syngeneic gp75 expressed in *insect* cells or human gp75, elicited autoantibodies to gp75. Immunized mice rejected metastatic melanomas and developed patchy depigmentation in their coats. These studies support a model...

...to a melanocyte differentiation antigen where tolerance can be broken by presenting sources of altered antigen (e.g., homologous xenogeneic protein or protein expressed in *insect* cells). Immune responses induced with these sources of altered antigen reacted with various processed forms of native, syngeneic protein and could induce both *tumor* rejection and autoimmunity.

3/3,K/13 (Item 13 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

07574229 93100306 PMID: 1464602

Pleiotrophin stimulates fibroblasts and endothelial and epithelial cells and is expressed in human cancer.

Fang W; Hartmann N; Chow D T; Riegel A T; Wellstein A
V.T. Lombardi Cancer Center, Georgetown University, Washington, D.C. 20007.

Journal of biological chemistry (UNITED STATES) Dec 25 1992, 267 (36) p25889-97, ISSN 0021-9258 Journal Code: 2985121R
Contract/Grant No.: U01 CA51908; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Previously we reported the purification of the heparin-binding growth factor pleiotrophin (PTN) from supernatants of the human breast *cancer* cell line MDA-MB-231. To investigate further the biological activities of PTN and its potential role in *cancer*, we cloned a PTN cDNA and expressed the gene in a human kidney and in a human adrenal carcinoma cell line (SW-13). The supernatants...
... autonomous growth in soft agar and were tumorigenic in athymic nude mice. In contrast to these results with PTN from human cells, PTN obtained from *insect* cells (Sf9) using recombinant baculovirus as a vector was biologically inactive. We detected high levels of PTN mRNA in 16 of 27 primary human breast *cancer* samples (62%) as well as in 8 of 8 carcinogen-induced rat mammary tumors. Furthermore, 9 of 34 human *tumor* cell lines of different origin showed detectable PTN mRNA. We conclude that PTN may function as a *tumor* growth and angiogenesis factor in addition to its role during embryonic development.

Descriptors: Cell Division--drug effects--DE; **Cytokines*--genetics--GE; **Cytokines*--physiology--PH; *Endothelium, Vascular--cytology--CY; *Neoplasms--genetics--GE; Adrenal Gland Neoplasms; Amino Acid Sequence; Base Sequence; Cell Line; Cloning, Molecular; *Cytokines*--pharmacology--PD ; Endothelium, Vascular--drug effects--DE; Epithelial Cells--cytology--CY; Epithelial Cells--drug effects--DE; Fibroblasts--cytology--CY; Fibroblasts--drug effects--DE; Genetic Vectors...
Chemical Name: *Cytokines*; Genetic Vectors; Mitogens; Oligodeoxyribonucleotides; RNA, Messenger; pleiotrophin

3/3,K/14 (Item 1 from file: 159)
DIALOG(R)File 159:Cancerlit

02141394 PMID: 95606786
The use of reovirus type 3 protein sigma one in the therapy of murine EL4 lymphoma.
Farone
Miami Univ.
Diss Abstr Int [B] 1994, 54 (11), ISSN 0419-4217
Document Type: THESIS
Languages: ENGLISH
Main Citation Owner: NOTNLM
Record type: Completed

... EL4-induced ascites tumors with the chemotherapeutic agent, 1,3-bis(chloroethyl)-1-nitrosourea (BCNU) on day 4 and reovirus on day 6 results in *tumor* rejection. *Tumor* rejection occurs even though only very low levels of virus replication have been detected in the *tumor* cells in vitro and at the *tumor* site in vivo. Noninfectious reovirus particles capable of attaching to cells are also therapeutically effective in combination with BCNU, while core particles lacking the virion outer capsid and attachment protein are not. Because these results have suggested that virus attachment, but not infection, may be required for *tumor* therapy, the goal of this study was to determine whether the reovirus cell attachment protein, sigma 1, could be substituted for reovirus in the therapy...

... the animals was enhanced compared to animals receiving a single injection on day 6. All animals were resistant to a homologous but not a heterologous *tumor* challenge suggesting the induction of *tumor*-specific immunity. Because multiple injections increased survival of the therapy animals, protein sigma 1 may be acting similarly to *cytokines*, which when used in *tumor* therapy regimens, require multiple injections to stimulate the host immune response. To facilitate the purification of greater quantities of protein sigma 1, the reovirus type 3 S1 gene encoding protein sigma 1 was cloned into a baculovirus expression system. *Insect* cells infected with the recombinant baculovirus produced more protein sigma 1 compared to cells infected with the recombinant vaccinia virus. The protein purified from the infected *insect* cells was biologically active. The baculovirus expression system will also provide a means to manipulate the S1 gene sequence and further define the functional domains...

3/3,K/15 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

13748226 BIOSIS NO.: 200200377047
Crystallization and preliminary diffraction studies of the ectodomain of the envelope glycoprotein D from herpes simplex virus 1 alone and in complex with the ectodomain of the human receptor HveA.
AUTHOR: Carfi Andrea; Gong Haiyun; Lou Huan; Willis Sharon H; Cohen Gary H; Eisenberg Roselyn J; Wiley Don C(a)
AUTHOR ADDRESS: (a)Department of Medicine, Children's Hospital, Howard Hughes Medical Institute, 320 Longwood Avenue, Boston, MA, 02115**USA
E-Mail: dcwadmin@crystal.harvard.edu
JOURNAL: Acta Crystallographica Section D Biological Crystallography 58 (5):p836-838 May, 2002
MEDIUM: print
ISSN: 0907-4449
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: 1-285) have been crystallized in two crystal forms. The complex between gD285 and the ectodomain of HveA, a gD cellular receptor member of the *tumor* necrosis factor (TNFR) superfamily, has also been crystallized. Moreover, *insect*-cell-expressed selenomethionine-substituted gD285 has been purified and crystallized alone and in complex with HveA.
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ...*cytokines*;

3/3,K/16 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

13542171 BIOSIS NO.: 200200170992
Therapy of *cancer* by *insect* cells containing recombinant baculovirus encoding genes.
AUTHOR: Fidler Isaiah J(a); Dhong Zhongyun; Lu Weixin
AUTHOR ADDRESS: (a)Houston, TX**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1254 (5):pNo Pagination Jan. 29, 2002
MEDIUM: e-file
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

Therapy of *cancer* by *insect* cells containing recombinant baculovirus encoding genes.

ABSTRACT: Provided are compositions and methods of use for *insect* cells comprising baculovirus encoding non-surface expressed proteins and peptides. The claimed invention particularly relates to compositions comprising *insect* cells containing baculovirus that express *cytokines* . Such compositions may be administered by, for example, direct intratumoral injection into tumors in mammals, resulting in *tumor* reduction or recission. Another aspect of the claimed invention concerns methods of promoting resistance to the reoccurence of tumors in mammals who have undergone such *tumor* recission. In a specific aspect of the claimed invention, the mammals are human subjects presenting with various forms of *cancer*.
METHODS & EQUIPMENT: recombinant baculovirus encoding gene-containing *insect* cell-based *cancer* therapy...

3/3,K/17 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

12895707 BIOSIS NO.: 200100102856
Recombinant proteins.
ORIGINAL LANGUAGE TITLE: Les proteines recombinantes.
AUTHOR: Bidart Jean-Michel(a); Bellet Dominique
AUTHOR ADDRESS: (a)Unite des Marqueurs Biologiques et Moleculaires, Institut Gustave-Roussy, 94805, Villejuif**France
JOURNAL: Comptes Rendus de l'Academie d'Agriculture de France 86 (6):p 123-133 2000
MEDIUM: print
ISSN: 0989-6988
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: French; Non-English
SUMMARY LANGUAGE: English; French

...ABSTRACT: and inexpensive. However, the utilization of bacteria presents several disadvantages, particularly when addressing complex proteins. To

encompass this problem, recombinant proteins are express in yeast, *insect* cells and mammal cells, each host cell presenting several advantages and pitfalls. Introduction of foreign DNA into mammal genome generates transgenic animals, particularly goats, sheeps...
...currently used in the treatment of human diseases or are in phase I and II of clinical trials. These include therapeutic hormones (diabetes, growth, fertility,...), *cytokines* (autoimmune diseases, *cancer*), recombinant vaccines (hepatitis), "humanized" monoclonal antibodies and chimaeric proteins.

3/3,K/18 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

12750561 BIOSIS NO.: 200000504184
Effect of PDI overexpression on recombinant protein secretion in CHO cells.
AUTHOR: Davis Raymond; Schooley Kenneth(a); Rasmussen Brian; Thomas James; Reddy Pranhitha(a)
AUTHOR ADDRESS: (a)Departments of Cell Science and Biochemistry, Immunex Corporation, 51 University Street, Seattle, WA, 98101**USA
JOURNAL: Biotechnology Progress 16 (5):p736-743 September-October, 2000
MEDIUM: print
ISSN: 8756-7938
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

...ABSTRACT: as a subunit of two more complex enzyme systems: the prolyl-4-hydroxylase and the triacylglycerol transfer proteins. Increasing PDI activity in bacterial, yeast, and *insect* cell expression systems can lead to increased secretion of heterologous proteins containing disulfide bridges. Since Chinese hamster ovary (CHO) cells are widely used for the...
...CHO cells to increase cellular PDI levels and examined its effect on the secretion of two different recombinant proteins: interleukin 15 (IL-15) and a *tumor* necrosis factor receptor:Fc fusion protein (TNFR:Fc). Secretion of TNFR:Fc (a disulfide-rich protein) is decreased in cells overexpressing PDI; the TNFR:Fc...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: *cytokines*;

3/3,K/19 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

12067698 BIOSIS NO.: 199900362547
Development of a p38 kinase binding assay for high throughput screening.
AUTHOR: Warrior Usha(a); Chiou X Grace; Sheets Michael P; Sciotti Richard J ; Parry Janet M; Simmer Robert L; Surber Bruce W; Burns David J; Beutel Bruce A; Mollison Karl W; Djuric Stevan W; Trevillyan James M
AUTHOR ADDRESS: (a)Dept. 04PN, Advanced Technology J-35, 200 Abbott Park Road, Abbott Park, IL, 60064**USA
JOURNAL: Journal of Biomolecular Screening 4 (3):p129-135 June, 1999
ISSN: 1087-0571
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

...ABSTRACT: serine/threonine kinases, which is activated by cellular stressors and has been shown to be a critical enzyme in the synthesis and action of proinflammatory *cytokines*, *tumor* necrosis factor-alpha (TNF-alpha) and interleukin-1beta (IL-1beta). A group of pyridinyl

imidazole compounds su[redacted]as SB202190 have been identifi[redacted]as selective inhibitors...
...binding of tritium-labeled pyridinylimidazole, SB202190, to recombinant p38 kinase. For assay development, the human p38 gene was cloned in baculovirus and then expressed in *insect* cells. Tritiated SB202190 was synthesized and used as the p38 ligand for a competitive filter binding assay. This assay has been used successfully to screen...

3/3,K/20 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

09575959 BIOSIS NO.: 199598030877
Coexpression of the human TNF receptors TR60 and TR80 in insect cells: Analysis of receptor complex formation.
AUTHOR: Moosmayer Dieter(a); Dinkel Adelheid; Gerlach Elke; Hessabi Benham; Grell Matthias; Pfizenmaier Klaus; Scheurich Peter
AUTHOR ADDRESS: (a)Inst. Cell Biol. Immunol., Univ. Stuttgart, Allmandring 31, D-70569 Stuttgart**Germany
JOURNAL: Lymphokine and Cytokine Research 13 (5):p295-301 1994
ISSN: 1056-5477
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: For investigation of a possible physical interaction between the two human *tumor* necrosis factor receptors, TR60 (type I) and TR80 (type II), the baculovirus expression system was used. Each of the receptors was expressed as a membrane-integrated protein in *insect* cells, able to specifically bind the two ligands, *tumor* necrosis factor (TNF) and lymphotoxin (LT-alpha). Typically, about 150,000 membrane receptors per cell could be detected 40 h after infection, exerting high affinity...
MISCELLANEOUS TERMS: ...*CYTOKINE*;

3/3,K/21 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

01957627 BIOSIS NO.: 000062047733
THE CELL SURFACE IN RELATION TO THE GROWTH CYCLE
AUTHOR: PASTERNAK C A
JOURNAL: J THEOR BIOL 58 (2). 1976 365-382. 1976
FULL JOURNAL NAME: Journal of Theoretical Biology
CODEN: JTBIA
RECORD TYPE: Abstract

...ABSTRACT: presented as working hypotheses to clarify current observations and to stimulate new experimental approaches. Initiation of karyokinesis is a necessary prerequisite for the initiation of *cytokinesis*; the reverse is not true. In spherical cells that double in volume prior to mitosis, the ratio of surface area:volume is maintained by the elaboration of microvilli; the extra surface area generated by *cytokinesis* is provided by an unfolding of microvilli. The state of the cell surface during interphase and in G0 is different from that during mitosis; the...

...in the formation of the mitotic spindle and cleavage furrow. The association of such elements with the cell surface is greater in normal than in *cancer* cells. *Insect*, rat and Chinese hamster ovary (CHO) cells were studied.
DESCRIPTORS: *INSECT* RAT CHINESE HAMSTER OVARY CHO CELLS MITOSIS *CANCER*

3/3,K/22 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

11630170 EMBASE No: 2002200416

Activation of antigen-presenting cells by immunostimulatory plant DNA: A natural resource for potential adjuvant

Wang Y.; Wang W.; Li N.; Yu Y.; Cao X.
X. Cao, Institute of Immunology, Second Military Medical University, 800 Xiang Yin Road, Shanghai 200433 China
AUTHOR EMAIL: caoxt@public3.sta.net.cn

Vaccine (VACCINE) (United Kingdom) 21 JUN 2002, 20/21-22 (2764-2771)
CODEN: VACCD ISSN: 0264-410X
PUBLISHER ITEM IDENTIFIER: S0264410X02001901
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 41

Genomic DNA sequences (bacteria, *insect*, nematodes and molluscs) or synthetic oligodeoxynucleotides (ODN) containing unmethylated CpG motifs (CpG-DNA/ODN) are regarded as promising candidates for new medical adjuvants for their...

...marrow-derived dendritic cells (BMDC). Plant DNA can also enhance antigen presentation capacity of BMDC and macrophages. When administrated in vivo, plant DNA can inhibit *tumor* growth in situ or metastasis in *tumor*-bearing mice. The immunostimulatory activity of plant DNA could be abolished by methylation. Our data showed that plant DNA can activate antigen-presenting cells (APC...

MEDICAL DESCRIPTORS:
drug activity; Chinese cabbage; maize; CpG island; methylation; Escherichia coli; B lymphocyte; lymphocyte proliferation; *cytokine* release; protein expression; dendritic cell; bone marrow; antigen presentation; macrophage; tumor growth--drug therapy--dt; tumor growth--prevention--pc; cancer inhibition; metastasis--drug therapy--dt...

3/3,K/23 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

11467610 EMBASE No: 2002039117

Activation requirements of circulating antigen-specific human CD8SUP+ memory T cells probed with insect cell-based artificial antigen-presenting cells

Guelly C.; Kupcu Z.; Zalusky D.; Karner M.; Zehetner M.; Schweighoffer T.
T. Schweighoffer, Boehringer Ingelheim Austria, Dr. Boehringer-Gasse 5-11 G200Z206, A-1120 Wien Austria
AUTHOR EMAIL: tamas.schweighoffer@vie.boehringer-ingelheim.com

European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 2002, 32/1 (182-192)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 44

We sought to define the molecular setup of an antigen-presenting cell that elicits antigen-specific T cell responses in vitro using *insect* cells that were infected with recombinant baculoviruses. Expression of single-chain HLA was complemented step-by-step with costimulatory molecules, including CD54 and CD80, by...
...restricted peptide GLGCTLVAML were previously shown to bear hallmarks of memory cells. We found that the HLA+peptide complex alone displayed on the surface of *insect* cells was sufficient to elicit IFN-gamma secretion from these freshly isolated CD8SUP+ T cells in ELISpot assays. Binding of CD8 was absolutely required, but coexpression of costimulatory molecules resulted only in minimal increase in the number of spots. *Tumor*

antigen-specific CTL clo[redacted] also reacted in a strictly an[redacted]en-specific manner, but required CD54 for quantitative responses. The amount of IFN-gamma produced by...

...evaluated as spot size, and was also influenced by the costimulatory molecules: CD54 increased also the response magnitude of cultured CTL lines, while CD80 enhanced *cytokine* release from freshly isolated CD8SUP+ T cells. Understanding the stimulatory requirements of functionally competent effector/memory T cells and their exact enumeration will be helpful...
MEDICAL DESCRIPTORS:
...study; virus recombinant; Baculovirus; protein expression; hybrid cell; protein domain; complex formation; cell surface; cell isolation; cell assay ; protein binding; cytotoxic T lymphocyte; lymphocyte clone; *cytokine* release; effector cell; nonhuman; controlled study; animal cell; article; priority journal

3/3,K/24 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE

10796958 EMBASE No: 2000277380
Treatment of gastric ulcers and diarrhea with the Amazonian herbal medicine sangre de grado
Miller M.J.S.; MacNaughton W.K.; Zhang X.-J.; Thompson J.H.; Charbonnet R.M.; Bobrowski P.; Lao J.; Trentacosti A.M.; Sandoval M.
M.J.S. Miller, Dept. of Pediatrics, MC-8, Albany Medical College, 47 New Scotland Ave., Albany, NY 12208 United States
AUTHOR EMAIL: millermj@mail.amc.edu
American Journal of Physiology - Gastrointestinal and Liver Physiology (AM. J. PHYSIOL. GASTROINTEST. LIVER PHYSIOL.) (United States) 2000, 279/1 42-1 (G192-G200)
CODEN: APGPD ISSN: 0193-1857
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 25

Sangre de grado is an Amazonian herbal medicine used to facilitate the healing of gastric ulcers and to treat gastritis, diarrhea, skin lesions, and *insect* stings. This study was designed to evaluate the gastrointestinal applications. Gastric ulcers were induced in rats by brief serosal exposure of the fundus to acetic...
...de grado facilitated the healing of experimental gastric ulcer, reducing myeloperoxidase activity, ulcer size, and bacterial content of the ulcer. The expression of proinflammatory genes *tumor* necrosis factor-alpha, inducible nitric oxide synthase (iNOS), interleukin (IL)-1beta, IL-6, and cyclooxygenase-2 was upregulated by ulcer induction but reduced by sangre ...
DRUG DESCRIPTORS:
capsaicin; tumor necrosis factor alpha--endogenous compound--ec; *cytokine* --endogenous compound--ec; nitric oxide synthase--endogenous compound--ec; interleukin 1beta--endogenous compound--ec; interleukin 6--endogenous compound--ec; cyclooxygenase 2--endogenous compound--ec; unclassified...
MEDICAL DESCRIPTORS:
guinea pig; ileum; intestine secretion; enzyme activity; protein expression ; *cytokine* production; drug potency; drug effect; cost effectiveness analysis; nonhuman; male; rat; animal experiment; animal model; controlled study; animal tissue; article; priority journal

3/3,K/25 (Item 4 from file: 73)
DIALOG(R)File 73:EMBASE

07900224 EMBASE No: 1999373915

Specific sequence elements are required for the expression of functional tumor necrosis factor-alpha-converting enzyme (TACE)

Milla M.E.; Leesnitzer M.A.; Moss M.L.; Clay W.C.; Carter H.L.; Miller A.B.; Su J.-L.; Lambert M.H.; Willard D.H.; Sheeley D.M.; Kost T.A.; Burkhart W.; Moyer M.; Blackburn R.K.; Pahel G.L.; Mitchell J.L.; Hoffman C.R.; Becherer J.D.

M.E. Milla, Dept. of Biochemistry and Biophysics, Univ. of Pennsylvania Sch. of Med., 3620 Hamilton Walk, Philadelphia, PA 19104 United States

AUTHOR EMAIL: mmilla@mail.med.upenn.edu

Journal of Biological Chemistry (J. BIOL. CHEM.) (United States) 1999 , 274/43 (30563-30570)

CODEN: JBCHA ISSN: 0021-9258

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 32

The *tumor* necrosis factor-alpha-converting enzyme (TACE) is a membrane-anchored zinc metalloprotease involved in precursor *tumor* necrosis factor-alpha secretion. We designed a series of constructs containing full-length human TACE and several truncate forms for overexpression in *insect* cells. Here, we demonstrate that full-length TACE is expressed in *insect* cells inefficiently: only minor amounts of this enzyme are converted from an inactive precursor to the mature, functional form. Removal of the cytoplasmic and transmembrane...

...TACE is an inhibitor of the catalytic domain, and the cysteine-rich domain appears to play a role in the release of the pro domain. *Insect* cells failed to secrete a deletion mutant encoding the catalytic domain but lacking the inhibitory pro domain. This truncate was inactive and extensively degraded intracellularly...

MEDICAL DESCRIPTORS:
enzyme conformation; enzyme activity; *cytokine* production; enzyme inactivation; deletion mutant; human; article; priority journal

```
?
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES
?ds

Set     Items   Description
S1        969   (TUMOR OR CANCER OR TUMOUR) (S) (INSECT)
S2         55   S1 AND (CYTOKINE? OR IMMUNOMODULATOR?)
S3         25   RD (unique items)
?s (insect) (s) (cytokine? or immunomodulator?)
          141151  INSECT
          383359  CYTOKINE?
           29401  IMMUNOMODULATOR?
      S4     340  (INSECT) (S) (CYTOKINE? OR IMMUNOMODULATOR?)
?s s4 and (IFNbeta or (IFN (w) beta))
             340  S4
             770  IFNBETA
          148773  IFN
         1529883  BETA
            8801  IFN(W)BETA
      S5       0  S4 AND (IFNBETA OR (IFN (W) BETA))
?s s4 and (tumor or tumour or cancer)
             340  S4
         2095032  TUMOR
          268084  TUMOUR
         2215582  CANCER
      S6      61  S4 AND (TUMOR OR TUMOUR OR CANCER)
?s s6 and (treatment or therapy)
              61  S6
         4396950  TREATMENT
         5021425  THERAPY
      S7      12  S6 AND (TREATMENT OR THERAPY)
?rd
...completed examining records
```

```
      S8        7  RD (un    e items)
?s s8 not s3
               7  S8
              25  S3
      S9        1  S8 NOT S3
?t s9/3,k/all
```

9/3,K/1 (Item 1 from file: 73)

```
DIALOG(R)File  73:EMBASE
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06009389     EMBASE No: 1995038044
```

Tyrosine phosphorylation of p95(Vav) in myeloid cells is regulated by GM-CSF, IL-3 and Steel factor and is constitutively increased by p210(BCR-ABL)

Matsuguchi T.; Inhorn R.C.; Carlesso N.; Xu G.; Druker B.; Griffin J.D.
Division of Hematologic Malignancies, Dana-Farber Cancer Institute, 44 Binney Street,Boston, MA 02115 United States

EMBO Journal (EMBO J.) (United Kingdom) 1995, 14/2 (257-265)
CODEN: EMJOD ISSN: 0261-4189
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...into this cell line resulted in factor-independent proliferation and constitutive phosphorylation of p95(Vav). Tyrosine phosphorylation of p95(Vav) was also substantially increased by *treatment* of *cytokine* -deprived cells with the tyrosine phosphatase inhibitor sodium vanadate. Since many of the *cytokines* known to induce tyrosine phosphorylation of p95(Vav) are also known to activate JAK family tyrosine kinases, we looked for an interaction of p95(Vav...

...CSF, but not in unstimulated cells. Also, JAK2 was found to be constitutively associated with p95(Vav) in vivo when expressed at high levels in *insect* cells using baculovirus vectors. A fusion protein consisting of glutathione-S-transferase and the SH2 domain of p95(Vav) (GST-Vav-SH2) precipitated JAK2, suggesting...

...Vav) is potentially directly regulated by JAK kinases, and further suggest that Vav is broadly involved in signal transduction in myeloid cells initiated by many *cytokines* and the oncogene BCR/ABL.

```
SECTION HEADINGS:
  016  *Cancer*
  022  Human Genetics
  029  Clinical and Experimental Biochemistry
?ds

Set     Items   Description
S1        969   (TUMOR OR CANCER OR TUMOUR) (S) (INSECT)
S2         55   S1 AND (CYTOKINE? OR IMMUNOMODULATOR?)
S3         25   RD (unique items)
S4        340   (INSECT) (S) (CYTOKINE? OR IMMUNOMODULATOR?)
S5          0   S4 AND (IFNBETA OR (IFN (W) BETA))
S6         61   S4 AND (TUMOR OR TUMOUR OR CANCER)
S7         12   S6 AND (TREATMENT OR THERAPY)
S8          7   RD (unique items)
S9          1   S8 NOT S3
?s s6 and (vaccine?)
              61  S6
          275496  VACCINE?
     S10      13  S6 AND (VACCINE?)
?rd
...completed examining records
     S11       5  RD (unique items)
?s s11 not s3
               5  S11
              25  S3
```

```
     S12       0  S11 NOT [redacted]
?rd s6
...examined 50 records  (50)
...completed examining records
     S13      26  RD S6 (unique items)
?s s13 not s3
              26  S13
              25  S3
     S14      10  S13 NOT S3
?t s14/3,k/all
```

14/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

13975491 22247664 PMID: 12235362

Antiviral and antitumor peptides from insects. NPL

Chernysh Sergey; Kim S I; Bekker G; Pleskach V A; Filatova N A; Anikin V B; Platonov V G; Bulet Philippe; et al

Laboratory of Entomology, Biological Institute of St. Petersburg State University, St. Petersburg, Oranienbaumskoye Shosse 2, St. Petersburg 198904, Russia. chernish@comset.net

Proceedings of the National Academy of Sciences of the United States of America (United States) Oct 1 2002, 99 (20) p12628-32, ISSN 0027-8424 Journal Code: 7505876

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... two variants of a group of bioactive, slightly cationic peptides, referred to as alloferons. Two peptides were isolated from the blood of an experimentally infected *insect*, the blow fly Calliphora vicina (Diptera), with the following amino acid sequences: HGVSGHGQHGVHG (alloferon 1) and GVSGHGQHGVHG (alloferon 2). Although these peptides have no clear...
... alloferon. Additional in vivo experiments in mice indicate that alloferon has antiviral and antitumoral capabilities. Taken together, these results suggest that this peptide, which has *immunomodulatory* properties, may have therapeutic capacities. The fact that insects may produce *cytokine* -like materials modulating basic mechanisms for human immunity suggests a source of anti-infection and antitumoral biopharmaceuticals.

...; Response Relationship, Drug; Hemolymph--metabolism--ME; Interferons --chemistry--CH; Interferons--metabolism--ME; Killer Cells, Natural; Mice; Molecular Sequence Data; Sequence Homology, Amino Acid; Time Factors; *Tumor* Cells, Cultured

14/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

09868046 98307937 PMID: 9642261

Human ecalectin, a variant of human galectin-9, is a novel eosinophil chemoattractant produced by T lymphocytes.

Matsumoto R; Matsumoto H; Seki M; Hata M; Asano Y; Kanegasaki S; Stevens R L; Hirashima M

Department of Bacterial Infection, Institute of Medical Science, University of Tokyo, Tokyo 108, Japan. ryoji@hgc.ims.u-tokyo.ac.jp

Journal of biological chemistry (UNITED STATES) Jul 3 1998, 273 (27) p16976-84, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... consisting of 323 amino acids. Although ecalectin lacks a hydrophobic

signal peptide, it is ecreted from mammalian cells Ecalectin is not related to any known *cytokine* or chemokine but rather is a variant of human galectin-9, a member of the large family of animal lectins that have affinity for beta-galactosides. Recombinant ecalectin, expressed in COS cells and *insect* cells, exhibited potent eosinophil chemoattractant activity and attracted eosinophils in vitro and in vivo in a dose-dependent manner but not neutrophils, lymphocytes, or monocytes...
...; Base Sequence; Cloning, Molecular; DNA, Complementary; Lectins --biosynthesis--BI; Lectins--isolation and purification--IP; Molecular Sequence Data; RNA, Messenger--genetics--GE; Sequence Homology, Amino Acid; *Tumor* Cells, Cultured

14/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08828900 96180218 PMID: 8786323
Extracellular activities of human granzyme A. Monocyte activation by granzyme A versus alpha-thrombin.
Sower L E; Froelich C J; Allegretto N; Rose P M; Hanna W D; Klimpel G R
Department of Microbiology and Immunology, The University of Texas Medical Branch, Galveston, 77555, USA.
Journal of immunology (Baltimore, Md. : 1950) (UNITED STATES) Apr 1 1996, 156 (7) p2585-90, ISSN 0022-1767 Journal Code: 2985117R
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... portion of their synthesized granzymes, these proteases could mediate extracellular functions independent of their role in the lytic event. Thrombin, another serine protease, can induce *cytokine* production in a number of different cell types. In this study, we test the hypothesis that granzymes, like thrombin, can regulate cell-mediated immunity by inducing the production of different *cytokines* . We show that granzyme A (GA) stimulates IL-6, IL-8, and TNF-alpha production by human PBMC and purified monocytes. In contrast, monocytes exposed...
... However, monocytes exposed to either GA or thrombin had enhanced phagocytic activity. The enzymatic activity of GA and thrombin was required for the induction of *cytokine* production and for the enhancement of phagocytic activity. The induction of different *cytokine* profiles by GA vs thrombin suggested that GA activates monocytes via a receptor that was different from the thrombin receptor. This conclusion was strengthened by the fact that GA was incapable of inducing Ca2+ mobilization in *insect* cells transfected with the thrombin receptor. These results suggest that enzymatically active GA mediates important immunoregulatory functions through signaling pathways that does not involve thrombin...
...; Interleukin-6--biosynthesis--BI; Interleukin-8--biosynthesis--BI; Monocytes--drug effects--DE; Phagocytosis--drug effects--DE; Receptors, Thrombin--genetics--GE; Receptors, Thrombin--metabolism--ME; Transfection; *Tumor* Necrosis Factor--biosynthesis--BI
Chemical Name: Cytokines; Interleukin-6; Interleukin-8; Receptors, Thrombin; *Tumor* Necrosis Factor; Serine Endopeptidases; Thrombin; granzyme A

14/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08719957 96072804 PMID: 7594541
Mouse lymphotoxin-beta receptor. Molecular genetics, ligand binding, and expression.
Force W R; Walter B N; Hession C; Tizard R; Kozak C A; Browning J L; Ware C F

Division of Biomedical Sciences, University of California, Riverside 92521, USA.
Journal of immunology (Baltimore, Md. : 1950) (UNITED STATES) Dec 1 1995, 155 (11) p5280-8, ISSN 0022-1767 Journal Code: 2985117R
Contract/Grant No.: AI33068; AI; NIAID
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... as a chimera with the Fc region of IgG7, to bind to LT alpha beta complexes expressed on the surface of activated T cells or *insect* cells infected with baculoviruses containing LT alpha and LT beta cDNAs. The gene encoding mouse LT beta R, Ltbr, contains 10 exons spanning 6.9...

... expressed in visceral and lymphoid tissues. The delineation of the structure of the mouse LT beta R will aid investigations into the role of this *cytokine*-receptor system in immune function and development.
Descriptors: Lymphotoxin--genetics--GE; *Membrane Proteins--genetics--GE; *Receptors, *Tumor* Necrosis Factor--genetics--GE...; Complementary; Ligands; Lymphotoxin--biosynthesis--BI; Lymphotoxin--metabolism--ME; Membrane Proteins--biosynthesis--BI; Membrane Proteins--metabolism--ME; Mice; Molecular Sequence Data; RNA, Messenger--analysis--AN; Receptors, *Tumor* Necrosis Factor--biosynthesis--BI; Receptors, *Tumor* Necrosis Factor--metabolism--ME; Sequence Homology, Amino Acid
Chemical Name: DNA, Complementary; Ligands; Lymphotoxin; Membrane Proteins; RNA, Messenger; Receptors, *Tumor* Necrosis Factor; lymphotoxin beta

14/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08527563 95283511 PMID: 7539254
Lack of critical domains in the beta-chain of hepatocyte growth factor.
Lee H S; Huang G T; Sheu J C; Chiou L L; Horng M C; Lai M Y; Chen D S; Lee S C
Department of Internal Medicine, National Taiwan University, Taipei.
Biochemical and biophysical research communications (UNITED STATES) May 25 1995, 210 (3) p1017-24, ISSN 0006-291X Journal Code: 0372516
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Hepatocyte growth factor (HGF) is a *cytokine* with pleiotropic effects on many different cell types. Its biological activities depend on the disulfide-linked alpha beta heterodimeric molecule. To study the functions of the beta-chain of HGF, *insect* cell-expressed HGFs prepared from nested deletions from C-terminus of beta-chain were studied for their biological activities and ligand-binding functions. The results...
...; Phosphotyrosine; Polymerase Chain Reaction; Proto-Oncogene Protein c-met; Recombinant Proteins--biosynthesis--BI; Recombinant Proteins --chemistry--CH; Recombinant Proteins--pharmacology--PD; Sequence Deletion ; Spodoptera; Transfection; *Tumor* Cells, Cultured; Tyrosine--analogs and derivatives--AA; Tyrosine--analysis--AN; Tyrosine--metabolism--ME

14/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08300046 95059042 PMID: 7526154
Direct binding to and tyrosine phosphorylation of the alpha subunit of the type I interferon receptor by p135tyk2 tyrosine kinase.

Colamonici O; Yan H; anski P; Handa R; Smalley D; M ersman J; Witte M; Krishnan K; Krolewski J
Department of Pathology, University of Tennessee, Memphis 38163.
Molecular and cellular biology (UNITED STATES) Dec 1994, 14 (12) p8133-42, ISSN 0270-7306 Journal Code: 8109087
Contract/Grant No.: CA55079; CA; NCI; CA56862; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...interaction between these two proteins is both direct and specific. We also demonstrate that Tyk2, from extracts of either IFN alpha-treated human cells or *insect* cells infected with the recombinant baculoviruses, can catalyze in vitro phosphorylation of GST-IFN-R protein in a specific manner. Deletion mutants of the GST...

...tyrosine phosphorylation site(s) to a 46-amino-acid juxtamembrane region of the alpha subunit, which shows sequence homology to functionally similar regions of other *cytokine* receptor proteins. These data support the hypothesis that the Tyk2 protein functions as part of a receptor complex to initiate intracellular signaling in response to...
; DNA-Binding Proteins--metabolism--ME; Interferon-alpha--pharmacology --PD; Phosphotyrosine; Protein Binding; Recombinant Proteins--metabolism --ME; Signal Transduction; Trans-Activators--metabolism--ME; *Tumor* Cells, Cultured; Tyrosine--analogs and derivatives--AA; Tyrosine--metabolism--ME

14/3,K/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08000796 94117858 PMID: 8288897
Production of lymphotoxin (LT alpha) and a soluble dimeric form of its receptor using the baculovirus expression system.
Crowe P D; VanArsdale T L; Walter B N; Dahms K M; Ware C F
Division of Biomedical Sciences, University of California, Riverside 92521-0121.
Journal of immunological methods (NETHERLANDS) Jan 12 1994, 168 (1) p79-89, ISSN 0022-1759 Journal Code: 1305440
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... p60:Fc) comprised of the extracellular domain of the 60 kDa TNF receptor (TNFR60) fused to the Fc portion of human IgG1 were produced in *insect* cells infected with recombinant baculoviruses. The p60:Fc fusion produced in *insect* cells accumulates in culture supernatants to levels > 2 mg/l. Purified p60:Fc binds human TNF and LT alpha with high affinity (200-600 pM...

... at equimolar stoichiometric concentration. The data show that p60:Fc is an effective ligand-precipitating reagent which recognizes recombinant LT alpha produced in mammalian or *insect* cells and naturally occurring LT alpha produced in T cells. The levels of human LT alpha produced in baculovirus-infected *insect* cells is estimated to be approximately 20 mg/l. *Insect* cell-derived human LT alpha is biologically active in an L929 cytotoxicity assay and is efficiently neutralized by p60:Fc. These data demonstrate that the baculovirus system is useful for overexpressing biologically active LT alpha and p60:Fc and therefore, may be applicable to other oligomeric *cytokines* and soluble dimeric *cytokine* receptors.
Descriptors: Lymphotoxin--biosynthesis--BI; *Receptors, *Tumor* Necrosis Factor--biosynthesis--BI...; Heavy-Chain--biosynthesis--BI; Immunoglobulin s, Heavy-Chain--genetics--GE; Insects; Lymphotoxin--genetics--GE; Lymphotoxin--metabolism--ME; Molecular Sequence Data; Neutralization Tests

; Nucleopolyhedrovirus--[redacted]netics--GE; Receptors, *Tumo[redacted]Necrosis Factor --genetics--GE; Recombinant Fusion Proteins--biosynthesis--BI; Solubility
Chemical Name: Immunoglobulin G; Immunoglobulins, Fc; Immunoglobulins, Heavy-Chain; Lymphotoxin; Receptors, *Tumor* Necrosis Factor; Recombinant Fusion Proteins

14/3,K/8 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE

11796419 EMBASE No: 2002366745
Toll-like receptor signaling and regulation of cytokine gene expression in the immune system
Ozato K.; Tsujimura H.; Tamura T.
Dr. K. Ozato, Lab. of Molecular Growth Regulation, NICHD, National Institute of Health 6, Center Drive MSC-2753, Bethesda, MD 20892-2753 United States
AUTHOR EMAIL: ozatok@nih.gov
BioTechniques (BIOTECHNIQUES) (United States) 01 OCT 2002, 33/4 SUPPL. (S66-S75)
CODEN: BTNQD ISSN: 0736-6205
DOCUMENT TYPE: Journal ; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 93

...cells recognize molecular structures present in the pathogens. Upon binding of a pathogen ligand, TLRs trigger a cascade of signaling pathways that is conserved from *insect* to plants to humans, which ultimately activates NFkappaB. In mammalian cells, this leads to the induction of *cytokine* genes and the establishment of innate immunity. For example, TLR signals induce type I interferons (IFNalpha/beta) in dendritic cells conferring an antiviral state upon host cells. Moreover, TLR signals stimulate not only pro-inflammatory *cytokines* such as IFNs, IL-1, TNFalpha, and IL-12 but also anti-inflammatory *cytokines* such as IL-10 and IL-6. IL-12 and IL-10 are *cytokines* that bridge early innate responses and the ensuing specific immune responses. TLR signals also enhance an antigen presentation capacity in dendritic cells and macrophages. Recent...
DRUG DESCRIPTORS:
ligand; immunoglobulin enhancer binding protein--endogenous compound--ec; interferon--endogenous compound--ec; interleukin 1--endogenous compound--ec ; *tumor* necrosis factor alpha--endogenous compound--ec; interleukin 12 --endogenous compound--ec; interleukin 10--endogenous compound--ec; interleukin 6--endogenous compound--ec; transcription factor--endogenous compound...

14/3,K/9 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE

06009389 EMBASE No: 1995038044
Tyrosine phosphorylation of p95(Vav) in myeloid cells is regulated by GM-CSF, IL-3 and Steel factor and is constitutively increased by p210(BCR-ABL)
Matsuguchi T.; Inhorn R.C.; Carlesso N.; Xu G.; Druker B.; Griffin J.D.
Division of Hematologic Malignancies, Dana-Farber Cancer Institute, 44 Binney Street,Boston, MA 02115 United States
EMBO Journal (EMBO J.) (United Kingdom) 1995, 14/2 (257-265)
CODEN: EMJOD ISSN: 0261-4189
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...cell line resulted in factor-independent proliferation and constitutive phosphorylation of p95(Vav). Tyrosine phosphorylation of

p95(Vav) was also substantially increased by treatment of *cytokine* -deprived cells with the tyrosine phosphatase inhibitor sodium vanadate. Since many of the *cytokines* known to induce tyrosine phosphorylation of p95(Vav) are also known to activate JAK family tyrosine kinases, we looked for an interaction of p95(Vav...

...CSF, but not in unstimulated cells. Also, JAK2 was found to be constitutively associated with p95(Vav) in vivo when expressed at high levels in *insect* cells using baculovirus vectors. A fusion protein consisting of glutathione-S-transferase and the SH2 domain of p95(Vav) (GST-Vav-SH2) precipitated JAK2, suggesting...

...Vav) is potentially directly regulated by JAK kinases, and further suggest that Vav is broadly involved in signal transduction in myeloid cells initiated by many *cytokines* and the oncogene BCR/ABL.
SECTION HEADINGS:
016 *Cancer*
022 Human Genetics
029 Clinical and Experimental Biochemistry

14/3,K/10 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE

05630834 EMBASE No: 1994034881
Production of lymphotoxin (LTalpha) and a soluble dimeric form of its receptor using the vaculovirus expression system
Crowe P.D.; VanArsdale T.L.; Walter B.N.; Dahms K.M.; Ware C.F.
Division of Biomedical Sciences, University of California,Riverside, CA 92521-0121 United States
Journal of Immunological Methods (J. IMMUNOL. METHODS) (Netherlands) 1994, 168/1 (79-89)
CODEN: JIMMB ISSN: 0022-1759
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...comprised of the extracellular domain of the 60 kDa TNF receptor (TNFRinf 6inf 0) fused to the Fc portion of human IgG1 were produced in *insect* cells infected with recombinant baculoviruses. The p60:Fc fusion produced in *insect* cells accumulates in cultured supernatants to levels > 2 mg/l. Purified p60:Fc binds human TNF and LTalpha with high affinity (200-600 pM) and...

...activity at equimolar stoichiometric concentration. The data show that p60:Fc is an effective ligand-precipitating reagent which recognizes recombinant LTalpha produced in mammalian or *insect* cells and naturally occurring LTalpha produced in T cells. The levels of human LTalpha produced in baculovirus-infected *insect* cells is estimated to be ~20 mg/l. *Insect* cell-derived human LTalpha is biologically active in an L929 cytotoxicity assay is efficiently neutralized by p60:Fc. These data demonstrate that the baculovirus system is useful for overexpressing biologically active LTalpha and p60:Fc and therefore, may be applicable to other oligomeric *cytokines* and soluble dimeric *cytokine* receptors.
DRUG DESCRIPTORS:
*immunoglobulin g1--endogenous compound--ec; *lymphotoxin--endogenous compound--ec; **tumor* necrosis factor--endogenous compound--ec
?ds

Set	Items	Description
S1	969	(TUMOR OR CANCER OR TUMOUR) (S) (INSECT)
S2	55	S1 AND (CYTOKINE? OR IMMUNOMODULATOR?)
S3	25	RD (unique items)
S4	340	(INSECT) (S) (CYTOKINE? OR IMMUNOMODULATOR?)
S5	0	S4 AND (IFNBETA OR (IFN (W) BETA))
S6	61	S4 AND (TUMOR OR TUMOUR OR CANCER)

```
### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
 ******** HHHHHHHH SSSSSSSS?
### Status: Signing onto Dialog
 ********
ENTER PASSWORD:
 ******** HHHHHHHH SSSSSSSS? ********
Welcome to DIALOG
### Status: Connected


Dialog level 02.12.60D

Last logoff:  12feb03 15:31:40
Logon file001 13feb03 16:16:51
           *** ANNOUNCEMENT ***
                    ***
--File 515 D&B Dun's Electronic Business Directory is now online
completely updated and redesigned. For details, see HELP NEWS 515.
                    ***
--File 990 - NewsRoom now contains October 2002 to present records.
File 993 - NewsRoom archive contains 2002 records from January 2002-
September 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002
                    ***
--Alerts have been enhanced to allow a single Alert profile to be
stored and run against multiple files. Duplicate removal is available
across files and for up to 12 months. The Alert may be run according
to the file's update frequency or according to a custom
calendar-based schedule. There are no additional prices for these
enhanced features. See HELP ALERT for more information.
                    ***
--U.S. Patents Fulltext (File 654) has been redesigned with
new search and display features.  See HELP NEWS 654 for
information.
                    ***
--Connect Time joins DialUnits as pricing options on Dialog.
See HELP CONNECT for information.
                    ***
--CLAIMS/US Patents (Files 340,341, 942) have been enhanced
with both application and grant publication level in a
single record. See HELP NEWS 340 for information.
                    ***
--SourceOne patents are now delivered to your email inbox
as PDF replacing TIFF delivery. See HELP SOURCE1 for more
information.
                    ***
--Important news for public and academic
libraries.  See HELP LIBRARY for more information.
                    ***
--Important Notice to Freelance Authors--
See HELP FREELANCE for more information
                    ***
For information about the access to file 43 please see Help News43.
***
NEW FILES RELEASED
***Dialog NewsRoom - Current 3-4 months (File 990)
***Dialog NewsRoom - 2002 Archive (File 993)
***Dialog NewsRoom - 2001 Archive (File 994)
***Dialog NewsRoom - 2000 Archive (File 995)
***TRADEMARKSCAN-Finland (File 679)
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***TRADEMARKSCAN-Norway (File 678)
***TRADEMARKSCAN-Sweden  (File 675)
                  ***
UPDATING RESUMED
***Delphes European Business (File 481)
                  ***
RELOADED
***D&B Dun's Electronic Business Directory (File 515)
***U.S. Patents Fulltext 1976-current (File 654)
***Population Demographics (File 581)
***Kompass Western Europe (File 590)
***D&B - Dun's Market Identifiers  (File 516)

REMOVED
***Chicago Tribune (File 632)
***Fort Lauderdale Sun Sentinel (File 497)
***The Orlando Sentinel (File 705)
***Newport News Daily Press (File 747)
***U.S. Patents Fulltext 1980-1989 (File 653)
***Washington Post (File 146)
***Books in Print (File 470)
***Court Filings (File 793)
***Publishers, Distributors & Wholesalers of the U.S. (File 450)
***State Tax Today (File 791)
***Tax Notes Today (File 790)
***Worldwide Tax Daily (File 792)

***TOXNET data is added to ToxFile (F156)

***New document supplier***
IMED has been changed to INFOTRIE (see HELP OINFOTRI)


     >>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
     >>>    of new databases, price changes, etc.      <<<
                  ****
KWIC is set to 50.
HILIGHT set on as '*'
* *  New CURRENT Year ranges installed    **

File   1:ERIC  1966-2003/Jan 22
       (c) format only 2003 The Dialog Corporation

      Set  Items  Description
      ---  -----  -----------
Cost is in DialUnits
?b 155, 159
       13feb03 16:17:26 User259876 Session D464.1
            $0.37    0.105 DialUnits File1
     $0.37  Estimated cost File1
     $0.13  TELNET
     $0.50  Estimated cost this search
     $0.50  Estimated total session cost   0.105 DialUnits


SYSTEM:OS  - DIALOG OneSearch
  File 155:MEDLINE(R)  1966-2003/Feb W2
         (c) format only 2003 The Dialog Corp.
  File 159:Cancerlit  1975-2002/Oct
         (c) format only 2002 Dialog Corporation
*File 159: Updating for Cancerlit has stopped due to end of year
processing.

      Set  Items  Description
      ---  -----  -----------
?s (insect (w) cell?) (s) adjuvant
```

```
         43042  INSECT
       3148339  CELL?
         85849  ADJUVANT
      S1      34  (INSECT (W) CELL?) (S) ADJUVANT
?s s1 and (cancer or tumor or tumour)
             34  S1
         782675  CANCER
        1014991  TUMOR
         149629  TUMOUR
      S2      6  S1 AND (CANCER OR TUMOR OR TUMOUR)
?rd
...completed examining records
      S3      3  RD (unique items)
?t s3/3,k/all
```

3/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

13091195 21626920 PMID: 11770992

Production of biologically active equine interleukin 12 through expression of p35, p40 and single chain IL-12 in mammalian and baculovirus expression systems.

McMonagle E L; Taylor S; van Zuilekom H; Sanders L; Scholtes N; Keanie L J; Hopkins C A; Logan N A; Bain D; Argyle D J; Onions D E; Schijns V E; Nicolson L

University of Glasgow Veterinary School, UK.

Equine veterinary journal (England) Nov 2001, 33 (7) p693-8, ISSN 0425-1644 Journal Code: 0173320

Comment in Equine Vet J. 2001 Nov;33(7) 628-9; Comment in PMID 11770981

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...reported for IL-12a of several mammalian species. We report production of equine IL-12 through expression of p35 and p40 subunits in mammalian and *insect* *cells* and of a p35:p40 fusion polypeptide in mammalian cells. Conditioned medium recovered from cultures transiently transfected with constructs encoding equine p35 and p40 subunits...
... cultures enhanced target cell IFN-gamma production and proliferation. Experimental studies in mice and other animals have revealed a therapeutic benefit of IL-12 in *cancer*, inflammatory and infectious disease and an *adjuvant* effect in prophylactic regimes. Production of a bioactive species-specific IL-12 is a first step towards an investigation of its potential application in equine...

3/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

10775346 20338600 PMID: 10881691

***Cancer* vaccines: single-epitope anti-idiotype vaccine versus multiple-epitope antigen vaccine.**

Maruyama H; Zaloudik J; Li W; Sperlagh M; Koido T; Somasundaram R; Scheck S; Prewett M; Herlyn D

Wistar Institute of Anatomy and Biology, Philadelphia, PA 19104, USA.

Cancer immunology, immunotherapy : CII (GERMANY) Jun 2000, 49 (3) p123-32, ISSN 0340-7004 Journal Code: 8605732

Contract/Grant No.: CA-10815; CA; NCI; CA-43735; CA; NCI; CA-53411; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

***Cancer* vaccines: single-epitope anti-idiotype vaccine versus multiple-epitope antigen vaccine.**

In this study, we compared the immunogenicity and *tumor*-protective activity of anti-idiotypic antibodies mimicking a single *tumor*-associated epitope and *tumor* -associated antigen expressing multiple potentially immunogenic epitopes. We focused our study on the colorectal-carcinoma(CRC)-associated antigen GA733 (also known as CO17-1A/KS1...

... idiotypic antibody (Ab2) BR3E4 was produced against murine anti-CRC mAb CO17-1A (Ab1) in rats. Full-length native GA733 protein was isolated from human *tumor* cells, and the extracellular domain protein (GA733-2E) was isolated from supernatants of recombinant baculovirus-infected *insect* *cells* by immunoaffinity chromatography. The immunomodulatory activity of the Ab2 was compared with that of the antigen, both in rabbits and in mice. Mice, like humans...

... recombinant GA733-2E antigen, but not alum-precipitated Ab2, induced specific humoral immunity. However, when the Ab2 was administered to mice in Freund's complete *adjuvant* , specific humoral immune responses were elicited. Ab2 in complete Freund's *adjuvant* and GA733-2E in alum were compared for their capacity to induce antigen-specific cellular immunity in mice. Whereas lymphoproliferative responses were obtained with the...

...mice against challenge with antigen-positive syngeneic murine CRC cells. Similar studies with Ab2 BR3E4 mimicking the CO17-1A epitope were not possible because the *tumor* cells do not express this epitope after transfection with the human GA733-2 cDNA. However, similar studies with Ab2 mimicking the epitope defined by mAb GA733, which is expressed by the transfected *tumor* cells, indicated a lack of *tumor*-protective activity of this Ab2. In contrast, the full-length antigen expressed by recombinant adenovirus inhibited the growth of established tumors in mice. In conclusion, soluble antigen is a more potent modulator of humoral and cellular immune responses than Ab2, both administered in *adjuvant*. However, for induction of protective immunity, the immunogenicity of the antigen must be further enhanced, e.g., by expression of the antigen in a viral...

Descriptors: Adenocarcinoma--immunology--IM; *Antibodies, Anti-Idiotypic --immunology--IM; *Antibodies, Monoclonal--immunology--IM; *Antibodies, Neoplasm--biosynthesis--BI; *Antigens, Neoplasm--immunology--IM; **Cancer* Vaccines--immunology--IM; *Cell Adhesion Molecules--immunology--IM; *Colorectal Neoplasms--immunology--IM; *Epitopes--immunology--IM; *Melanoma , Experimental--immunology--IM; *Molecular Mimicry

Chemical Name: Adjuvants, Immunologic; Alum Compounds; Antibodies, Anti-Idiotypic; Antibodies, Monoclonal; Antibodies, Neoplasm; Antigens, Neoplasm; *Cancer* Vaccines; Cell Adhesion Molecules; Epitopes; Recombinant Fusion Proteins; *tumor*-associated antigen GA733; aluminum sulfate

3/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

08507957 95264502 PMID: 7745754

Immunization with viruslike particles from cottontail rabbit papillomavirus (CRPV) can protect against experimental CRPV infection.

Breitburd F; Kirnbauer R; Hubbert N L; Nonnenmacher B; Trin-Dinh-Desmarquet C; Orth G; Schiller J T; Lowy D R

Unite des papillomavirus, Institut National de la Sante et de la Recherche Medicale U-190, Institut Pasteur, Paris, France.

Journal of virology (UNITED STATES) Jun 1995, 69 (6) p3959-63, ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...papillomavirus (CRPV). A recombinant baculovirus system that expressed only the L1 major papillomavirus structural protein or L1 plus the minor L2 protein was used in *insect* *cells* as the source of VLPs. Groups of 10 rabbits were immunized with native or denatured VLPs from CRPV or type 1 bovine papillomavirus by using Freund's *adjuvant*. Alum was used as the *adjuvant* for an additional group immunized with CRPV L1-L2 VLPs. Animals were challenged with 5 x 10(10) and 2 x 10(11) particles on...
...rabbits, respectively, with no lesions, and the remainder developed only one to eight papillomas, which all regressed except for those on 1 rabbit. None developed *cancer* within 1 year of infection. Rabbits vaccinated with native CRPV VLPs developed high-titer antibodies in an enzyme-linked immunosorbent assay based on native VLPs...
Descriptors: Papillomavirus, Cottontail Rabbit--immunology--IM; *Papovaviridae Infections--prevention and control--PC; **Tumor* Virus Infections--prevention and control--PC; *Viral Vaccines--administration and dosage--AD; Blood; Enzyme-Linked Immunosorbent Assay; Immunoglobulin G --immunology--IM; Immunotherapy, Adoptive; Neutralization Tests; Papovaviridae Infections--immunology--IM; Rabbits; *Tumor* Virus Infections --immunology--IM; Vaccination; Viral Vaccines--immunology--IM; Virion --immunology--IM
?ds

Set	Items	Description
S1	34	(INSECT (W) CELL?) (S) ADJUVANT
S2	6	S1 AND (CANCER OR TUMOR OR TUMOUR)
S3	3	RD (unique items)

?rd s1
...completed examining records

S4	27	RD S1 (unique items)

?s s4 not s3

	27	S4
	3	S3
S5	24	S4 NOT S3

?t s5/3,k/all

5/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

14360658 22387510 PMID: 12500188
Hepatitis C virus-like particles combined with novel adjuvant systems enhance virus-specific immune responses.
Qiao Ming; Murata Kazumoto; Davis Anthony R; Jeong Sook-Hyang; Liang T Jake; et al
Liver Diseases Section, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD 20892, USA.
Hepatology (Baltimore, Md.) (United States) Jan 2003, 37 (1) p52-9, ISSN 0270-9139 Journal Code: 8302946
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

We have previously described the generation of hepatitis C virus-like particles (HCV-LPs) in *insect* *cells* and shown that immunization with HCV-LPs elicited both humoral and cellular immune responses in mice. To further characterize the HCV-LPs as a vaccine candidate, we evaluated the effects of *adjuvant* AS01B (monophosphoryl lipid A [MPL] and QS21), CpG 10105, and the combination of the 2 adjuvants on the immunogenicity of HCV-LPs in AAD mice (transgenic for HLA-A2.1). All HCV-LP-immunized mice (with or without *adjuvant*) developed high titers of anti-HCV E1/E2 antibodies after 4 injections intramuscularly. However, antibody titers in mice immunized with HCV-LP plus AS01B, plus...

5/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

13512326 21902603 PMID: 11905846
Characterisation of proton pump antibodies and stomach pathology in gastritis induced by neonatal immunisation without adjuvant.
Greenwood D L; Sentry J W; Toh B H
Department of Pathology & Immunology, Monash Medical School, Victoria, Australia.
Autoimmunity (Switzerland) 2001, 34 (2) p81-94, ISSN 0891-6934 Journal Code: 8900070
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

It has previously been reported that neonatal BALB.D2 mice injected with native proton pump antigens without *adjuvant* develop an irreversible gastritis (Claeys et al, 1997). The ease of inititating gastritis in the neonate stands in contrast with the difficulty in initiating gastritis in adult mice that require repeated immunisation in *adjuvant* that is reversible following cessation of immunisation (Scarff et al, 1997). In view of these contrasting observations, we set out to ascertain whether we could...
... autoantibody response. We found that neonatal gastritis-susceptible BALB/c mice (n=12), immunised with either pig or mouse gastric membranes in the absence of *adjuvant*, develop gastritis without circulating antibody to parietal cells detected by immunofluorescence, a hallmark of murine and human gastritis (Toh et al, 1997). However, mice immunized...

... pig gastric membranes (n=6) had circulating antibodies reactive by immunofluorescence to recombinant alpha and/or beta subunit of gastric H+/K+-ATPase expressed by *insect* *cells* (Sfalpha and Sfbeta). Four mice from this cohort with antibodies to Sfbeta also had reactivity to gastric H+/K+-ATPase by ELISA, and 3 immunoblotted...

5/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

13479933 21649561 PMID: 11792064
Recombinant hemagglutinin protein of rinderpest virus expressed in insect cells induces cytotoxic T-cell responses in cattle.
Sinnathamby G; Renukaradhya G J; Rajasekhar M; Nayak R; Shaila M S
Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore.
Viral immunology (United States) 2001, 14 (4) p349-58, ISSN 0882-8245 Journal Code: 8801552
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... to confer protective immunity in animals. In this paper, we demonstrate that single administration of low doses of recombinant H protein of RPV expressed in *insect* *cells* in the form of extracellular virus induces long lasting bovine leukocyte antigen class I restricted cytotoxic T-cell (CTL) responses in cattle in the absence of *adjuvant*. This is the first report of CTL responses in cattle against one of the protective antigens of RPV.

5/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLIN)

13205157 21662166 PMID: 11803079

Construction of recombinant targeting immunogens incorporating an HIV-1 neutralizing epitope into sites of differing conformational constraint.

Ho Jason; MacDonald Kelly S; Barber Brian H

Department of Immunology, Medical Sciences Building, 1 Kings College Circle, University of Toronto, Ont., M5S 1A8, Toronto, Canada.

Vaccine (England) Jan 15 2002, 20 (7-8) p1169-80, ISSN 0264-410X Journal Code: 8406899

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... recognized by 2F5 could provide the means to induce a broadly neutralizing anti-HIV-1 antibody response. Thus, in an effort to create a targeted, *adjuvant* -independent immunogen able to induce a 2F5-like antibody response, the gp41 sequence recognized by 2F5 (ELDKWAS) was genetically incorporated into different regions of an antibody specific for a framework determinant on human leukocyte antigen (HLA)-DR. All constructs were expressed, secreted from Sf9 *insect* *cells*, and found to retain the anti-HLA-DR specificity of the parental antibody. Three of the four constructs in which the ELDKWAS sequence was incorporated...

... be more beta-turn-like than helical in conformation. Importantly, with respect to vaccine development, the 2F5-reactive antibody constructs represent candidate immunogens for the *adjuvant*-independent induction of an HIV-1, neutralizing 2F5-like antibody response in humans.

5/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

11280030 21321100 PMID: 11427260

Recombinant hemagglutinin protein of rinderpest virus expressed in insect cells induces humoral and cell mediated immune responses in cattle.

Sinnathamby G; Naik S; Renukaradhya G J; Rajasekhar M; Nayak R; Shaila M S

Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore 560 012, India.

Vaccine (England) Jul 16 2001, 19 (28-29) p3870-6, ISSN 0264-410X Journal Code: 8406899

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...baculovirus expressing H protein and studied its protective properties in cattle. In this report, we demonstrate that the recombinant baculovirus encoded H protein expressed in *insect* *cells* gets incorporated into extracellular baculovirus. Single administration of low doses of purified recombinant extracellular virus with or without *adjuvant* induces virus neutralizing antibody responses and bovine leukocyte antigen (BoLA) class II restricted helper T cell responses in cattle.

5/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

11219240 21247197 PMID: 11348714

Oral administration of hepatitis E virus-like particles induces a systemic and mucosal immune response in mice.

Li T; Takeda N; Miyamu[redacted]T
Department of Virology II, National Institute of Infectious Diseases, Toyama 1-23-1, Shinjuku, 162-8640, Tokyo, Japan. litc@nih.go.jp
Vaccine (England) May 14 2001, 19 (25-26) p3476-84, ISSN 0264-410X Journal Code: 8406899
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...in mice after oral administration. The capsid proteins of HEV with its N-terminal 111 amino acids truncated were expressed with a recombinant baculovirus in *insect* *cells*, where the capsid proteins self-assembled into VLPs. Mice were orally inoculated four times with purified rHEV VLPs in concentrations ranging from 10 to 100 microg without *adjuvant*. Serum IgM response was obtained with as little as 10 microg of the VLPs, and the level reached its maximum in all mice groups within...
...the groups of mice receiving 50 and 100 microg rHEV VLPs at 8 weeks p.i. All these antibody responses were obtained without a mucosal *adjuvant*. We therefore concluded that oral immunization of rHEV VLPs is capable of inducing systemic as well as intestinal antibody responses. Furthermore, serum IgG and fecal...

5/3,K/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

11111605 21116968 PMID: 11179324
Efficacy of two alternate vaccines based on Plasmodium falciparum merozoite surface protein 1 in an Aotus challenge trial.
Stowers A W; Cioce V; Shimp R L; Lawson M; Hui G; Muratova O; Kaslow D C; Robinson R; Long C A; Miller L H
Malaria Vaccine Development Unit, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Inc., Rockville, Maryland 20852, USA. astowers@niaid.nih.gov
Infection and immunity (United States) Mar 2001, 69 (3) p1536-46, ISSN 0019-9567 Journal Code: 0246127
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... system. One recombinant vaccine, bvMSP1(42), based on the 42-kDa C-terminal portion of MSP1, was expressed as a secreted protein in baculovirus-infected *insect* *cells* . A highly pure baculovirus product could be reproducibly expressed and purified at yields in excess of 8 mg of pure protein per liter of culture...
... treatment for uncontrolled parasitemia. With both antigens, protection was seen only when high antibody levels were obtained by formulation of the vaccines in Freund's *adjuvant*. Vaccine formulation in an alternate *adjuvant* , MF59, resulted in significantly lower antibody titers and no protection.

5/3,K/8 (Item 8 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10800480 20336266 PMID: 10879919
A recombinant Eimeria protein inducing interferon-gamma production: comparison of different gene expression systems and immunization strategies for vaccination against coccidiosis.
Lillehoj H S; Choi K D; Jenkins M C; Vakharia V N; Song K D; Han J Y; Lillehoj E P
Immunology and Disease Resistance Laboratory, Livestock and Poultry

Sciences Institute, BARC-East, U.S. Department of Agricu re, Beltsville, MD 20705, USA.
Avian diseases (UNITED STATES) Apr-Jun 2000, 44 (2) p379-89, ISSN 0005-2086 Journal Code: 0370617
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... synthetic peptide deduced from the amino acid sequence of the 3-1E cDNA reacted with a 27-kD recombinant 3-1E protein expressed in Sf9 *insect* *cells* and a 20-kD native protein expressed by E. acervulina sporozoites and Eimeria tenella sporozoites and merozoites. By immunofluorescence staining, a monoclonal antibody produced against...
... that the protein activates cell-mediated immunity during coccidiosis. Immunization of chickens with either the E. coli- or Sf9-expressed recombinant 3-1E protein with *adjuvant*, or direct injection of the 3-1E cDNA, induced protective immunity against live E. acervulina. Simultaneous injection of the recombinant 3-1E protein, or the...

5/3,K/9 (Item 9 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10449288 99438264 PMID: 10506654
Accelerated clearance of SHIV in rhesus monkeys by virus-like particle vaccines is dependent on induction of neutralizing antibodies.
Notka F; Stahl-Hennig C; Dittmer U; Wolf H; Wagner R
Institute of Medical Microbiology, University of Regensburg, Franz-Josef-Strauss Allee 11, D-93053, Regensburg, Germany.
Vaccine (ENGLAND) Sep 1999, 18 (3-4) p291-301, ISSN 0264-410X Journal Code: 8406899
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Recombinant, *insect* *cell* derived SIV Pr56(gag) virus-like particles (VLPs) have been modified either by inserting HIV-1 Gp160 derived peptides into the Pr56(gag) precursor or...

... the complete HIV-1 gp120 in the particle membrane. To investigate the protective efficacy of these particulate antigens, rhesus macaques were immunized with VLPs both *adjuvant*-free or adsorbed to alum. In addition, recombinant Semliki Forest viruses (SFV) expressing proteins corresponding to the VLP constructs were established and administered as live...

5/3,K/10 (Item 10 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10352331 99319800 PMID: 10392629
Biochemical and immunologic comparison of virus-like particles for a rotavirus subunit vaccine.
Madore H P; Estes M K; Zarley C D; Hu B; Parsons S; Digravio D; Greiner S ; Smith R; Jiang B; Corsaro B; Barniak V; Crawford S; Conner M E
Wyeth-Lederle Vaccines and Pediatrics, West Henrietta, NY 14586, USA.
Vaccine (ENGLAND) May 14 1999, 17 (19) p2461-71, ISSN 0264-410X Journal Code: 8406899
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

'... 6/7-VLPs) or of [redacted]ine VP2, bovine VP6, and simi[redacted] VP7 (SA11, G3) proteins (2/6/7-VLPs) were synthesized and purified from Sf9 *insect* *cells* co-infected with recombinant baculoviruses. 6/7- and 2/6/7-VLP administered parenterally (i.m.) in mice had comparable immunogenicity, but the 2/6/7-VLPs were more homogeneous and stable. The inclusion of the VP2 capsid contributed to particle formation and stability. The *adjuvant* QS-21 significantly enhanced the immunogenicity of 2/6/7-VLPs over A10H or saline alone. Equivalent serum neutralizing antibody responses were induced over the...

5/3,K/11 (Item 11 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10265190 99242011 PMID: 10227472
Efficacy and stability of a subunit vaccine based on glycoprotein E2 of classical swine fever virus.
Bouma A; de Smit A J; de Kluijver E P; Terpstra C; Moormann R J
Institute for Animal Science and Health (ID-DLO), Lelystad, The Netherlands. a.bouma@id.dlo.nl
Veterinary microbiology (NETHERLANDS) Apr 1 1999, 66 (2) p101-14, ISSN 0378-1135 Journal Code: 7705469
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... was to determine the efficacy and stability of an E2 subunit vaccine against classical swine fever virus (CSFV). The vaccine, which contains E2 produced in *insect* *cells* by a baculovirus expression vector is a potential marker vaccine, as it allows discrimination between infected and vaccinated pigs. Several vaccination-challenge experiments were performed ...

...the vaccine several months after production. A single vaccination with a vaccine dose of 32 microg E2 - the estimated PD95 - in a water-oil-water *adjuvant* prevented clinical signs and mortality due to a CSFV challenge-inoculation three weeks after vaccination. Moreover, virus transmission to susceptible sentinel pigs was prevented in...

5/3,K/12 (Item 12 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10234076 99210167 PMID: 10195792
Is there an advantage to including the nucleoprotein in a rabies glycoprotein subunit vaccine?
Drings A; Jallet C; Chambert B; Tordo N; Perrin P
Laboratoire des Lyssavirus, Institut Pasteur, Paris, France.
Vaccine (ENGLAND) Mar 17 1999, 17 (11-12) p1549-57, ISSN 0264-410X Journal Code: 8406899
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

The PV rabies (genotype 1) G and N proteins were produced by recombinant baculoviruses in *insect* *cells* . We tested the ability of recombinant antigens to synergistically induce an immune response and, particularly, to broaden the spectrum of Lyssavirus-neutralizing antibodies produced. Cell ...

... primed mice for both the production of VNAb induced by inactivated and purified rabies virus and the protection conferred by RNP. RRN also had an

adjuvant effect on [redacted]b production induced by RR[redacted] when the two recombinant proteins were physically associated either encapsulated in liposomes or subjected to ultrasound treatment. However...

... was no increase in production of VNAb directed against EBL-1 although classical vaccines (genotype 1) induce partial protection against this virus. thus, beside its *adjuvant* effect there is some doubt as to whether including rabies N protein in a rabies subunit vaccine containing the recombinant G protein would be advantageous.

5/3,K/13 (Item 13 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10205838 99165032 PMID: 10067709
Heterotypic protection from rotavirus infection in mice vaccinated with virus-like particles.
Jiang B; Estes M K; Barone C; Barniak V; O'Neal C M; Ottaiano A; Madore H P; Conner M E
Wyeth-Lederle Vaccines and Pediatrics, Pearl River, NY 10965, USA.
Vaccine (ENGLAND) Feb 26 1999, 17 (7-8) p1005-13, ISSN 0264-410X Journal Code: 8406899
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Virus-like particles (VLPs) composed of rotavirus VP2, VP6, and VP7 of G1 or G3 serotype specificity were produced in *insect* *cells* coinfected with recombinant baculoviruses expressing single rotavirus genes. The VLPs were purified and subsequently evaluated for immunogenicity and protection in the adult mouse model of...

... challenge with the G3 murine ECwt rotavirus was assessed by comparing the antigen shed in stool of the VLP-vaccinated mice to that of the *adjuvant* -immunized mice. G1 VLPs in QS-21 induced significantly higher serum and intestinal antibody titers than G1 VLPs in AlOH or G1 VLPs alone. QS...

...when formulated with AlOH induced a predominant Th2 response and did not protect (1%) mice from virus challenge. Our results indicate that the type of *adjuvant* used clearly influences both antibody responses to rotavirus VLPs and the protective efficacy against rotavirus infections. These data have important implications for the development of...

5/3,K/14 (Item 14 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09918758 98361458 PMID: 9697993
Characterization of the murine immune response to the murine TSH receptor ectodomain: induction of hypothyroidism and TSH receptor antibodies.
Vlase H; Weiss M; Graves P N; Davies T F
Department of Medicine, Mount Sinai School of Medicine, New York, NY, USA.
Clinical and experimental immunology (ENGLAND) Jul 1998, 113 (1) p111-8, ISSN 0009-9104 Journal Code: 0057202
Contract/Grant No.: DK35764; DK; NIDDK; DK45011; DK; NIDDK
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...with a new bioactive, recombinant preparation of the ectodomain of the

murine TSHR (mTSHR-ecd) [redacted]ice (n = 10) were immunized wi[redacted]25-50 microg of *insect* *cell* expressed, purified and refolded, mTSHR-ecd in alum *adjuvant* containing pertussis toxin, on days 0, 21, 36, 50 and 70. Control mice received wild-type baculovirus-infected *insect* *cell* protein lysate, in a similar way. After 28 days, murine serum contained high titres of antibodies specific to mTSH-ecd and their titres continued to...

5/3,K/15 (Item 15 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09879686 98309204 PMID: 9645322
Recombinant chicken interferon-gamma-mediated inhibition of Eimeria tenella development in vitro and reduction of oocyst production and body weight loss following Eimeria acervulina challenge infection.
Lillehoj H S; Choi K D
USDA-ARS, Livestock and Poultry Sciences Institute, Immunology and Disease Resistance Laboratory, Beltsville, MD 20705-2350, USA.
Avian diseases (UNITED STATES) Apr-Jun 1998, 42 (2) p307-14, ISSN 0005-2086 Journal Code: 0370617
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Recombinant chicken interferon-gamma (chIFN-gamma) was produced in CHO-K1 or Spodoptera frugiperda (SF9) *insect* *cells* by transfection with a pcDNA vector or recombinant baculovirus (SF9-interferon-gamma [IFN-gamma] carrying the chIFN-gamma gene. A rabbit antibody against a synthetic...

... first direct evidence that chIFN-gamma exerts an inhibitory effect against Eimeria and provides a rational basis for use of this cytokine as a vaccine *adjuvant* against coccidiosis.

5/3,K/16 (Item 16 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09681862 98105780 PMID: 9445035
Oral immunization with recombinant Norwalk virus-like particles induces a systemic and mucosal immune response in mice.
Ball J M; Hardy M E; Atmar R L; Conner M E; Estes M K
Division of Molecular Virology, Baylor College of Medicine, Houston, Texas 77030, USA.
Journal of virology (UNITED STATES) Feb 1998, 72 (2) p1345-53, ISSN 0022-538X Journal Code: 0113724
Contract/Grant No.: AI 36519; AI; NIAID; T32 DK-07664; DK; NIDDK
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Recombinant Norwalk virus-like particles (rNV VLPs) produced in *insect* *cells* were evaluated as an oral immunogen in CD1 and BALB/c mice by monitoring rNV-specific serum total and subclass immunoglobulin G (IgG) and intestinal IgA responses. Dose and kinetics of response were evaluated in the presence and absence of the mucosal *adjuvant* cholera toxin (CT). rNV-specific serum IgG and intestinal IgA were detected in the absence of CT, and the number of responders was not significantly...
... IgG subclass response in both mouse strains. Thus, nonreplicating rNV VLPs are immunogenic when administered orally in the absence of any delivery system or mucosal *adjuvant*. These studies demonstrate that rNV VLPs are an excellent model to study the oral delivery of antigen, and they

are a potential mucosal vaccine for...

5/3,K/17 (Item 17 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09668427 98074586 PMID: 9413106
Affinity-purified dengue-2 virus envelope glycoprotein induces neutralizing antibodies and protective immunity in mice.
Staropoli I; Frenkiel M P; Megret F; Deubel V
Unite des Arbovirus et Virus des Fievres Hemorragiques, Institut Pasteur, Paris, France.
Vaccine (ENGLAND) Dec 1997, 15 (17-18) p1946-54, ISSN 0264-410X Journal Code: 8406899
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... in place of the last 100 amino acids at its C-terminus. The recombinant protein was purified from the supernatant of baculovirus-infected Spodoptera frugiperda *insect* *cell* cultures to apparent homogeneity by cation-chelation chromatography (TALON) in which the H6-tagged E-protein was eluted under non-denaturing conditions with 100 mM imidazole at pH 8.0. Mice vaccinated with the purified E mixed with aluminium hydroxide *adjuvant* showed an immune response of IgM and IgG1, IgG2a and IgG2b isotypes, and neutralizing antibodies, similar to that following immunization with purified inactivated DEN-2...

5/3,K/18 (Item 18 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09216935 97116586 PMID: 8957674
Chimeric potyvirus-like particles as vaccine carriers.
Jagadish M N; Edwards S J; Hayden M B; Grusovin J; Vandenberg K; Schoofs P; Hamilton R C; Shukla D D; Kalnins H; McNamara M; Haynes J; Nisbet I T; Ward C W; Pye D
CSIRO, Division of Biomolecular Engineering, Parkville, Victoria, Australia.
Intervirology (SWITZERLAND) 1996, 39 (1-2) p85-92, ISSN 0300-5526 Journal Code: 0364265
Document type: Journal Article; Review; Review, Tutorial
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... in enhanced immune responses. Coat protein (CP) monomers of a potyvirus (Johnsongrass mosaic virus) when produced in heterologous host expression systems (Escherichia coli, yeast and *insect* *cells*) self-polymerized to produce potyvirus-like particles (PVLPs). The N- and C-terminal regions of potyvirus CP are surface-exposed and are not required for...
... regions retained the ability to assemble into hybrid PVLPs. Such chimeric PVLPs were highly immunogenic in mice and rabbits even in the absence of any *adjuvant* . Potyvirus CP is highly versatile in accommodating peptides or large antigens and is able to present antigens exposed on the surface of virus-like particles. This, combined with the efficiency of high level bacterial and *insect* *cell* expression systems, makes PVLPs an attractive non-pathogenic and non-replicative vaccine carrier.

5/3,K/19 (Item 19 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

09107941 97008914 PMID: 8856024
Oral immunization of rabbits with VP60 particles confers protection against rabbit hemorrhagic disease.
Plana-Duran J; Bastons M; Rodriguez M J; Climent I; Cortes E; Vela C; Casal I
Laboratorios Sobrino-Cyanamid, Vall de Bianya, Madrid, Spain.
Archives of virology (AUSTRIA) 1996, 141 (8) p1423-36, ISSN 0304-8608 Journal Code: 7506870
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... cDNA of the VP60 coding sequence of RHDV was cloned under the control of the polyhedrin and p10 promoters of baculovirus to be expressed in *insect* *cells*. The expression of RHDV VP60 under the control of the p10 promoter was 5-10 times higher than using the polyhedrin promoter. The p10-derived...

... even at doses as low as 0.5 micrograms when injected intramuscularly or subcutaneously. The ability to elicit an immune response was independent of the *adjuvant* or the route of immunization. Remarkably, oral administration of RHDV VLPs efficiently induced protecting antibodies to RHD at doses as low as 3 micrograms. The...

5/3,K/20 (Item 20 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08994953 96355047 PMID: 8752296
Virus-like particles as a rotavirus subunit vaccine.
Conner M E; Zarley C D; Hu B; Parsons S; Drabinski D; Greiner S; Smith R; Jiang B; Corsaro B; Barniak V; Madore H P; Crawford S; Estes M K
Division of Molecular Virology, Baylor College of Medicine, Houston, Texas, USA.
Journal of infectious diseases (UNITED STATES) Sep 1996, 174 Suppl 1 pS88-92, ISSN 0022-1899 Journal Code: 0413675
Contract/Grant No.: AI-24998; AI; NIAID; DK-30144; DK; NIDDK
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Rotavirus subunit vaccines are being evaluated for use in humans. The virus-like particles (VLPs) for these vaccines are produced in *insect* *cells* coinfected with combinations of baculovirus recombinants expressing bovine RIF VP2 and simian SA11, VP4, VP6, or VP7 rotavirus proteins. VLPs were administered parenterally to mice...

... antibody was induced in mice vaccinated parenterally with G1 VP2/6/7 or VP2/4/6n VLPs. VLPs were highly immunogenic when administered in QS21 *adjuvant*, inducing serum neutralizing antibody titers comparable to those induced by SA11 virus. VLPs are effective immunogens when administered parenterally and may be an effective subunit...

5/3,K/21 (Item 21 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08367711 95122180 PMID: 7822014
Characterization of an insect cell-derived Theileria parva sporozoite

vaccine antigen and immunogenicity in cattle.
Nene V; Inumaru S; McKeever D; Morzaria S; Shaw M; Musoke A
International Laboratory for Research on Animal Disease, Nairobi, Kenya.
Infection and immunity (UNITED STATES) Feb 1995, 63 (2) p503-8,
ISSN 0019-9567 Journal Code: 0246127
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... bind to these recombinant forms but, at time points late during viral infection, reacted with a molecule of about 70 kDa. Since the bulk of *insect* *cell* -derived p67 was not expressed in an appropriate form, we tested the immunogenicity of these partially processed recombinant p67 forms in cattle. Two groups of three cattle were inoculated with antigen formulated either with saponin or Freund's *adjuvant*. As seen previously with NS1-p67, all animals developed high levels of anti-p67 antibodies that neutralized sporozoite infectivity in vitro, but antigen-specific T-cell proliferative responses were not detected in peripheral blood. Given the caveat of the small number of cattle analyzed, *insect* *cell*-derived p67 does not appear to be superior to NS1-p67 as an immunogen, and the latter remains the molecule of choice for the development...

5/3,K/22 (Item 22 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08224842 94358725 PMID: 7521393
Assembled baculovirus-expressed human papillomavirus type 11 L1 capsid protein virus-like particles are recognized by neutralizing monoclonal antibodies and induce high titres of neutralizing antibodies.
Christensen N D; Hopfl R; DiAngelo S L; Cladel N M; Patrick S D; Welsh P A; Budgeon L R; Reed C A; Kreider J W
Department of Pathology, Milton S. Hershey Medical Center, Hershey, Pennsylvania 17033.
Journal of general virology (ENGLAND) Sep 1994, 75 (Pt 9) p2271-6,
ISSN 0022-1317 Journal Code: 0077340
Contract/Grant No.: CA47266; CA; NCI; CA56460; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Baculovirus-expressed human papillomavirus type 11 (HPV-11) major capsid protein (L1) virus-like particles (VLPs) were produced in *insect* *cells* and purified on CsCl density gradients. The VLPs retained conformational neutralizing epitopes that were detected by a series of HPV-11-neutralizing monoclonal antibodies. Electron...
... The VLPs were very antigenic, and induced high titres of neutralizing antibodies in rabbits and mice when used as an immunogen without commercial preparations of *adjuvant* . These VLP reagents may be effective vaccines for protection against HPV infections.

5/3,K/23 (Item 23 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

07637217 93155646 PMID: 8429302
Expression and immunogenicity of the entire human T cell leukaemia virus type I envelope protein produced in a baculovirus system.
Arp J; Ford C M; Palker T J; King E E; Dekaban G A
Immunology Group, John P. Robarts Research Institute, London, Ontario, Canada.
Journal of general virology (ENGLAND) Feb 1993, 74 (Pt 2) p211-22,

ISSN 0022-1317 Journal Code: 0077340
Contract/Grant No.: CA40660; CA; NCI
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... leukaemia virus type I (HTLV-I) has been successfully expressed in a baculovirus non-fusion vector system. The HTLV-I envelope protein accumulated within the *insect* *cells* as inclusion bodies which allowed efficient recovery of the recombinant protein. In an attempt to study the role of the HTLV-I envelope glycoprotein as an immunogenic target, mice were immunized with the envelope protein inclusion bodies (env-I.B.) in the presence or absence of an *adjuvant*. Antibodies of broad specificity were produced against the HTLV-I envelope protein in the presence or absence of an *adjuvant* as detected by Western blotting, radioimmunoprecipitation and peptide ELISA. Neutralizing antibody was detected when env-I.B. immunizations were carried out in the presence of high doses of a new *adjuvant* composed of a mycobacterial cell wall extract. In a combined immunization regimen, env-I.B. were found to enhance and broaden the antibody response to...

5/3,K/24 (Item 24 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

06833725 91140010 PMID: 1995720
Vaccination of cotton rats with a chimeric FG glycoprotein of human respiratory syncytial virus induces minimal pulmonary pathology on challenge.
Wathen M W; Kakuk T J; Brideau R J; Hausknecht E C; Cole S L; Zaya R M
Infectious Diseases Research, Upjohn, Kalamazoo, Michigan 49007.
Journal of infectious diseases (UNITED STATES) Mar 1991, 163 (3) p477-82, ISSN 0022-1899 Journal Code: 0413675
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...model of human respiratory syncytial virus (RSV) infection was used to study the safety and efficacy of a chimeric FG glycoprotein that was expressed in *insect* *cells* using a baculovirus vector. Histologic and virologic examination of vaccinated rat lungs was done after challenge with RSV. When rats were challenged 1 month after...

... lung), while negative controls had 1%-3% lung involvement. Two doses with as little as 20 ng of FG glycoprotein formulated in an aluminum hydroxide *adjuvant* completely protected the cotton rats from RSV challenge. Thus the chimeric FG glycoprotein is highly immunogenic and induces minimal pulmonary inflammation in the cotton rat...
?ds

Set	Items	Description
S1	34	(INSECT (W) CELL?) (S) ADJUVANT
S2	6	S1 AND (CANCER OR TUMOR OR TUMOUR)
S3	3	RD (unique items)
S4	27	RD S1 (unique items)
S5	24	S4 NOT S3

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$5.67 27 Type(s) in Format 3
$5.67 27 Types
$9.18 Estimated cost File155
$1.69 0.574 DialUnits File159

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    $0.92  TELNET
   $11.79  Estimated cost this search
   $12.29  Estimated total session cost   1.774 DialUnits


### Status: Signed Off. (5 minutes)
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